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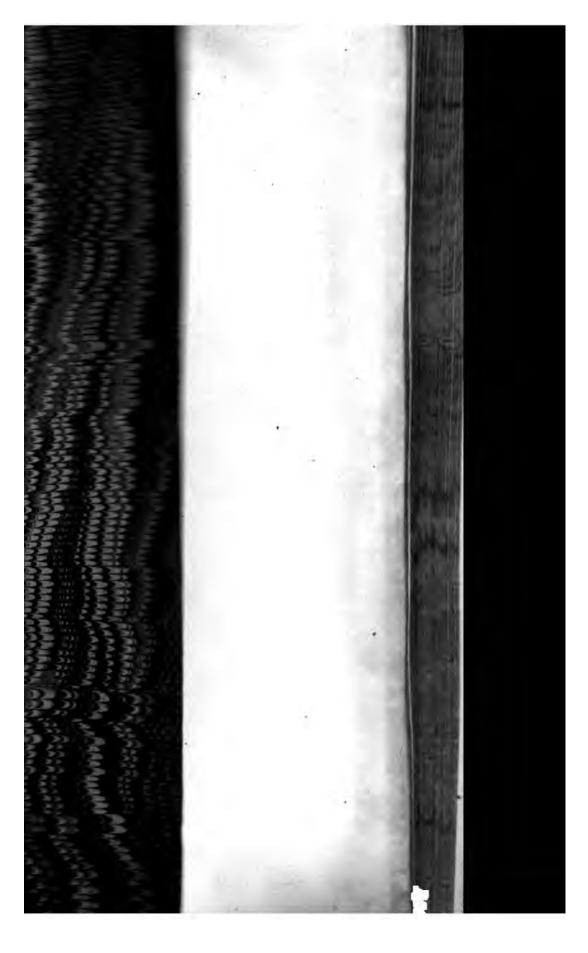


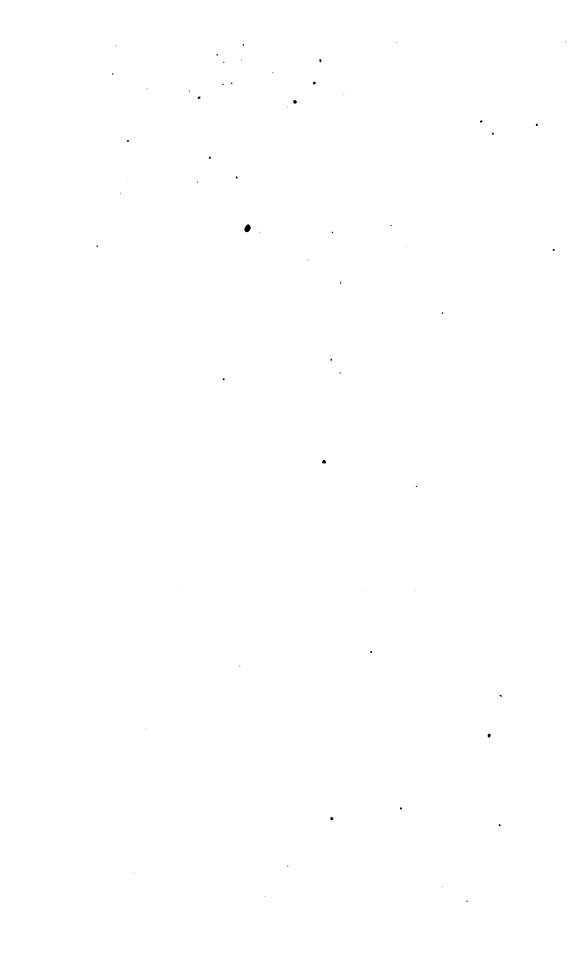
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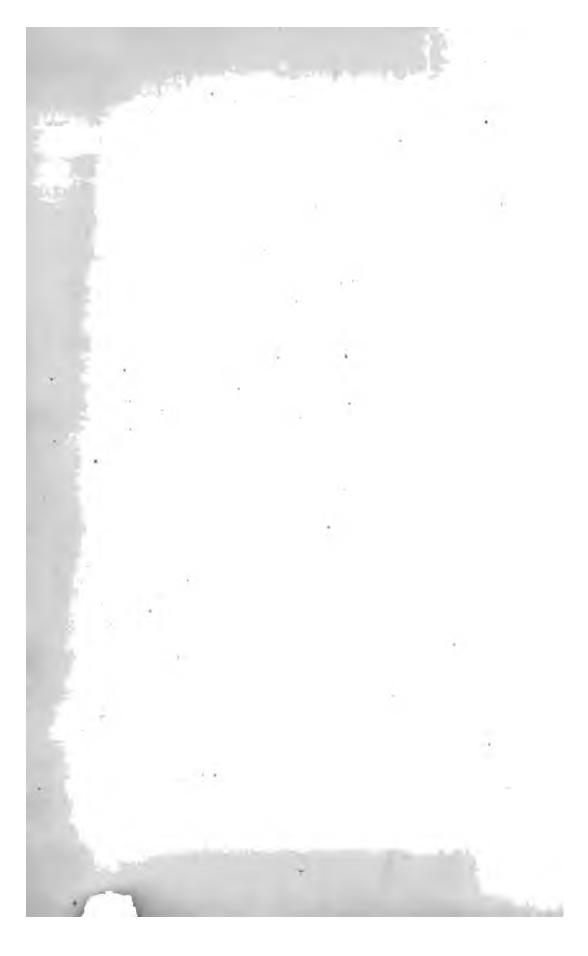
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NEW

AMERICAN CYCLOPÆDIA.

VOL. IV. BROWNSON-CHARTRES.



THE NEW

AMERICAN CYCLOPÆDIA:

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Popular Dictionary

OF

GENERAL KNOWLEDGE.

EDITED BY

GEORGE RIPLEY AND CHARLES A. DANA.

VOLUME IV. BROWNSON—CHARTRES.

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NEW AMERICAN CYCLOPÆDIA.

BROWNSON

BROWNSON, ORESTES AUGUSTUS, LL. D., an American author, born at Stockbridge, Vt., Sept. 16, 1803. His early life, passed chiefly with old people in a lonely locality, was without the sports and charms which usually belong to childhood. He was taught the assembly's cate-chism, the apostles' creed, and the Lord's prayer; and, with a fondness for reading, had for books almost nothing but the Scriptures and a few religious treatises. Hence his thoughts took a deeply religious turn; and at 9 years of age, having been permitted to witness a general military muster, and being asked what he had seen to interest him, his answer was, that be had seen two old men talking on religion. In fact, he had forgotten the soldiers to listen to a debate on election and free-will, in which he himself took part. One of his earliest aspirations was to become a clergyman. In his 19th year, he joined the Presbyterian church at Ballston, N. Y., where he was attending an academy, but soon meeting with men of various religious opinions, he changed his views after much argumentation and a period of perplexity, and became, in 1825, a Universalist minister. He preached in different villages of Vermont and New York, and wrote for and edited various religious periodicals, disseminating a confused medley of bold thoughts. His ecclesiastical position had grown into disfavor with him, when, making acquaintance with Robert Owen, he was fascinated by schemes of social reform; and in 1828 he was prominent in the formation of the working-men's party in New York, the design of which was to relieve the poorer and more numerous classes by political organization. Of the effectiveness of this movement he presently despaired, when the writings of Dr. Channing drew his attention to the Unitarians, and in 1833 he became pastor of a Unitarian congrega-He now enjoyed the acquaintance of many cultivated persons; was introduced to the French and German literatures; and began the methodical study of philosophy and theology. His chief advisers were the works of the French philosophers, and the most important result of his study was a conviction of the necessity of a new religious organization of mankind which should render the religious senti-

ments efficient in society, and give to faith, love, and union the supremacy over disbelief, uncertainty, and individualism. In 1886 he organized, in Boston, the "society for Christian union and progress," of which he retained the pastorate till he ceased preaching, in 1843. Immediately after removing to Boston, he published his "New Views of Christianity, Society, and the Church," remarkable for its protest against Protestantism; and in which, by speculations akin to those of Benjamin Constant and the St. Simonians, he looked to the immediate future for a transformation of religious and social ideas and institutions. In 1838 he established the "Boston Quarterly Review," of which he was proprietor, and almost sole writer, during the 5 years of its separate existence, and to which he contributed largely during the first year after it was merged in the "Democratic Review," of New York. It was designed not to support any definite doctrine, but to awaken thought on great subjects, with reference to speedy and lished, in 1840, "Charles Elwood, or the Infidel Converted," a philosophico-religious treatise, in the form of a novel. This book has passed through several editions in England, but as the land, but as the author soon afterward changed his views on the subjects treated in it, he declined to have more than one edition issued in this country. In his sermons, essays, and books, he had pushed abstract principles to speculative results, and, as he afterward said, had accepted and vindicated nearly every error into which the human race has ever fallen. Having gone in one direction about as far as was possible, and meeting with little either of sympathy or success, he began to suspect that man was not made for a church-builder, but that God himself had founded a church centuries since, fully adapted to the nature and destiny of human beings. This reactionary tendency in his thoughts was encouraged by a course of reasoning; and the ultra iconoclast in institutions, and "chartered libertine" in doctrine, began to look to the Roman Catholic church as the organization which he had vainly endeavored to construct for the redemption of humanity. his entrance into the Roman communion, in

1844, the romance of his intellectual career terminates, and he has since been laboring strenuously for the doctrines of that church. His course as a metaphysical thinker runs parallel with his ecclesiastical career. At one time a sensationalist, he passed to the senti-mental or intuitional philosophy, and was one of the earliest admirers of Cousin in this country. Two articles which he published on eclecticism in the "Christian Examiner," in 1837, were noticed and applauded by Cousin in the preface to the 8d edition of his Fragments Philosophiques. After devoting more attention to philosophy, he embraced rationalism. A later persuasion of the necessity of what may be called the traditional element, made him a Catholic in religion, and produced in his philosophy a union of the two systems of traditional-ism and rationalism, which is substantially his present doctrine. The method which he adopts in his system is the distinction between intuition (direct perception) and reflection (indirect or reflex knowledge). The mind is unconciously in-tuitive; it does not, in intuition, know that it has intuition of this or that truth, because as soon as it knows or is conscious of the intuition it has reflex knowledge. Reflection can contain nothing which is not first in intuition. der to reflect on that which we know intuitively, we must have some sensible sign by which the mind may apprehend or take hold of it. Such a sign is language, both in the ordinary and figurative sense of the word, which thus holds in the metaphysics of Mr. Brownson a place corresponding to that which tradition holds in his religious system. The knowledge of God, he maintains, is intuitive. The ideal element of every intellectual act is God creating creatures, ens creat existentias. The later publications of Mr. Brownson are the "Spirit Rapper," in 1854, and the "Convert, or Leaves from my Experience," in 1857. Since 1844 he has supported almost single-handed, in Boston and New York, "Brownson's Quarterly Review," devoted especially to the defence of Catholic doctrines, but also discussing the questions in politics and literature with which the public mind is occupied. An attempt was made by Dr. John II. Newman and others to persuade him to accept a chair in the new Irish university in Dublin, but he preferred to continue his labors in his native country. Translations of several of his works and essays have been published and favorably received in Europe, and his "Review" is regularly republished in London simultane-

ously with its appearance in this country.

BROWNSVILLE, a post borough of Fayette co., Penn. It is situated on the Monongahela river, where it is crossed by the national road. A bridge over the river has been erected here at a cost of \$50,000, and a 2d bridge, of castiron, over Dunlap's creek, connects Brownsville with the neighboring borough of Bridgeport. In the vicinity are rich mines of bituminous coal. The Monongahela is navigable to this point for large steamboats. The borough

was incorporated in 1815, and contained in 1853 about 4,500 inhabitants, who are extensively engaged in various manufactures, and in steamboat building.

BROWNSVILLE, formerly Fort Brown, a post town, capital of Cameron co., Texas, on the left bank of the Rio Grande, opposite Matamoras, and about 40 miles from the gulf of Mexico. It is easily accessible by steamboats, and its advantageous situation and trade with Mexico have rendered it one of the most prosperous and populous towns of the state. The value of its imports in 1852 was estimated at \$5,000,000. It contains a custom-house, 2 newspaper offices, and 3 churches; pop. in 1854, about 5,000.—At the commencement of the war with Mexico, in 1846, the U.S. troops under Gen. Taylor occupied this place, threw up a strong work, and, leaving in it a small garrison, marched to the relief of Point Isabel, on the coast, where their supplies were threatened. In the mean time the Mexicans, under cover of the guns of Matamoras, erected batteries, and on May 4 com-menced a bombardment of the fort, which lasted 160 hours. The Americans defended themselves with spirit and success, maintaining their position until the surrender of the city to Taylor, but losing their commander, Major Brown, who was killed by a shell on the 6th. It is in honor of this officer that the town was named. It has of late years been the starting point of several unsuccessful fillibuster expeditions into the Mexican territory.

BROWNSVILLE, the capital of Haywood co., Tenn., is situated in the midst of a rich, level country, is surrounded by cotton and maize plantations, and is the centre of an active trade. It contains a female college under the direction of the Baptists. Pop. 1,000.

the direction of the Baptists. Pop. 1,000. BRUAT, ARMAND ЈОВЕРИ, а French admiral, born at Colmar, 1796, died in 1855. In 1843 he was governor of the Marquesas islands. In 1848, after having, under the administration of Cavaignac, officiated for a short time as prefect of the port of Toulon, he was appointed governor of Martinique and commander of the naval deput in the Antilles, of which he became governorgeneral, March 12, 1849. In 1852 he became a member of the board of admiralty, and in the following year commander-in-chief of the ocean squadron. In 1854 he served in the fleet in the Black sea as vice-admiral, under Admiral Hamelin, and took an active part in the first bombardment of Sebastopol. On Dec. 8 he took the place of Hamelin, and was on the point of returning to France when, after leaving the port of Messina, he died of the cholera.

BRUCE, a noble family of Scotland, 2 members of which occupied the throne, after one had pretended to it in vain.—Robert, 7th lord of Annandale, was one of the 13 claimants of the crown in 1290, when, by the demise of Margaret, the "maiden of Norway," the posterity of the 3 last kings of Scotland had become extinct, and the succession reverted to the posterity of David, earl of Huntingdon, and younger

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brother of King William, the Lion. The question of succession speedily resolved itself into a simle alternative between 2 competitors, John Balid, the great-grandson of David by his eldest daughter, Margaret, and Robert Bruce, the grandson of David by his 2d daughter, Isabel. The contest was, by mutual consent, referred for decision to King Edward I. of England, who pronounced, in accordance with principles that would not now be disputed, that "in all indivisible heritages the more remote in degree of the lst line of descent is preferable to the nearer is degree of the 2d," and thus gave the kingdom to Baliol, from whom he required homare and feelty. Bruce now retired to Enghad took service in the English army, and fresh against Baliol in the war which resulted in the subjugation of Scotland to England. He remed to his English estates soon after the resignation of Baliol, passed the last years of his life in the deepest contempt among the more patrictic of his countrymen, and died about 1296. -Rosser, son of the preceding, earl of Carrick and Annandale, constantly followed the fortmes of Edward, and fought bravely against Wallace and the patriot party of Scotland.
After having assisted in defeating Wallace at Falkirk, he is said to have had an interview with him on the banks of the Carron, to have been affected to tears by his patriotism, devotion, and missfortunes, and to have sworn to join the national standard. This scene is the subject of a poem by Mrs. Hemans. From this time he elackened his zeal for England, but did white for the national cause that he was able to make his peace with Edward when, a litthe later, after the capitulation at Irvine, Walwe was driven with his adherents into the northern mountains.—ROBERT, son of the preceding, earl of Carrick, and afterward king of Scotland, born March 21, 1274, died July 9, 1239. He acted at first as Edward's liegeman, but vacillated between the 2 parties, taking no very active part in the struggle between Walhee and England, but inclining to the national cause when a gleam of success enlivened the hopes of the patriots, and, at the approach of Edward, making his peace with the conqueror. He was one of those consulted by the king in the settlement of Scotland as an English province, and was permitted to retain the extensive lands of his ancestors unalienated. It chanced in 1306 that Comyn, the son of Baliol's sister, a nobleman near to the crown, and already distinguished by his efforts to recover the inde-pendence of his country, arrived in Dumfries about the same time with Bruce. By appointment, he met Bruce alone in the church of the Minorites, who there stabbed him with his dagger; whether by premeditated treachery or in a saiden fit of pession cannot now be ascertained. Bruce hurried to the church door bloody and aginated, and to the inquiries of his attendants replied: "I think-I have killed Comyn!"
"You think!" exclaimed one of the number— "I make certain 1" and rushing with the others

into the church, despatched the wounded no-The Scotch historians have fabricated a tale to palliate an act which was in harmony with the turbulent spirit and bloody disposition of the age and country, and the authors of which, instead of feeling disgraced, prided themselves on the deed as on an exploit, one of them assuming as his crest a bloody hand holding a dirk, with the legend for a motto, "I make certain." By the murder of Comyn, Bruce had staked his life, and could save it only by winning a sceptre. He assumed the title of king, summoned the Scots to his standard, and was crowned, without any opposition, at Scone. Edward immediately sent Aymar de Valence, earl of Pembroke, with a great army to chastise the rebels. The force of Bruce was almost immediately destroyed, 6 of his best knights made prisoners, and he himself, thrown from his horse, was rescued only by the devotion of Seaton. For 2 months, with his brothers and the ladies of his household, he wandered to and fro in the wilds of the Grampian hills, living as an outlaw on the deer of the hills and the salmon of the streams, till his party being discovered, defeated, and forced to separate, he buried himself for concealment in the lonely island of Rathlin, on the north of Ireland. His 3 brothers, wife, and sister, 8 ecclesiastics in full armor, and others, were captured; and the brothers were soon after hanged at Carlisle, and the prelates and ladies were imprisoned in various parts of England. In the spring of 1307 Bruce returned from his retreat, surprised his own castle of Carrick, defeated small parties of English in many skirmishes, and was enabled to maintain himself among the hills and forests, until Edward, indignant at the partial success of men whom he regarded as outcasts from chivalry and forsworn felons, called out the army of his realm and marched toward the borders, but died on his way, leaving to his son a charge not to bury his bones till he had borne them in triumph from Berwick bounds to the utmost highlands. For 8 years Edward II. paid no attention to his father's advice or the Scottish war, but in the autumn of 1310 he marched into Scotland as far as the Forth without encountering an enemy, for Bruce wisely declined to give him battle. In the next year he sent his favorite Gaveston to renew the war, who penetrated beyond the Forth, but still gained no advantages, Bruce constantly retreating before him, keeping the hills where he could not be assailed, and harassing the English by constant petty skirmishes, in which he mostly worsted them. The following years were passed by Edward in ignoble contentions with his parliament, and by Bruce in gradually but surely recovering all that he had lost in Scotland, until, in 1814, the strong hill fortress of Stirling alone held out for the English, and even that the governor, Mowbray, had been forced to consent to surrender if it should not be relieved before the feast of St. John the Baptist. This at length aroused Edward, who, at

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the head of a large army, encamped in the neighborhood of the beleaguered fortress, and was there met by Bruce at the head of 80,000 picked men, on the eve of the festival fixed for its surrender. The battle of Bannockburn, which succeeded, was the bloodiest defeat which the English ever suffered at the hands of their Scottish neighbors. It fixed the crown securely on the head of Bruce, and at once enabled him to exchange his prisoners, who were of the highest rank in England, against his wife, his sister, and his other relatives, who had lan-guished so long in captivity. After this success the Scottish people assumed the offensive and invaded Ireland, where they at first gained considerable successes, and of which Edward Bruce was crowned king. While the dissensions lasted between Edward and his barons, Robert Bruce repeatedly devastated the borders and all the north of Yorkshire, even to the walls of York, into which he on one occasion chased Edward in disgrace, narrowly failing to make him prisoner. In 1323 this bloody war, which had raged, with few pauses, for 28 years, was brought to a close by a truce concluded between the 2 kingdoms for 13 years, to remain in force even in the event of the death of one or both of the contracting parties. Four years after this Edward II. was compelled to abdicate in favor of his son, Edward III., and Bruce, seeing his occasion in the distracted state of England, renewed the war, with the avowed intention of forcing Edward to renounce his claim of sovereignty over the crown of Scotland. In 1328 this renunciation was made; Scotland was declared sovereign and independent; Jane of England, the sister of Edward, was affianced to David, prince of Scotland; and Robert Bruce paid £20,000 sterling to defray the expenses of the war. He died the next year, having, after a life of incessant toil and warfare, secured the independence of his country and won the crown, which he left undisputed to his son.—DAVID, son of the preceding, king of Scotland, born about 1820, died in 1870. Shortly after his accession, at the age of 9 years, his kingdom was invaded, and his crown wrested from him, by Edward Baliol, son of that John Baliol whom Edward I. had compelled to resign the crown. In support of his claim Edward III, maintained a fierce strife on the borders, in active though undeclared hostilities to the Scots. David, with his young queen, Jane of England, escaped to France, where he resided till 1341, when, the nobles Murray, Douglas, and Stuart having expelled Baliol from the throne into the northern counties of England, he ventured to return. In 1846, while Edward III., with the flower of his army, was absent in France, David suddenly invaded England, at the head of 80,000 infantry, mounted for the march on galloways, and of 8,000 men-at-arms. But a small army of English had collected themselves secretly at Aukland park, in Durham, composed of 1,200 men-

of the church, officered by clergymen and others, and animated by the presence and exhortations of Queen Philippa. The English fought desperately, though with no regular leader, and the Scottish troops were totally defeated, leaving 15,000 men dead on the field of battle and their king a prisoner. From this time until 1857 David was detained a prisoner in the tower of London, when he was liberated after the battle of Poitiers, on the agreement to pay 100,-000 marks in 20 half-yearly instalments, a truce being sworn to and hostages interchanged be-tween the 2 countries. This truce was afterward extended to 25 years further, under the name of the great truce, which, David Bruce dying shortly after its ratification, was faithfully observed by his successor, Robert, the first of the Stuart kings of Scotland.

BRUCE, EDWARD, Lord, a Scottish judge and politician, born in 1549, died Jan. 14, 1611. In 1594 he was sent to remonstrate with Queen Elizabeth on the countenance she gave to the earl of Bothwell, and though she would not deliver Bothwell up, she compelled him to leave her dominions. In 1598 he went a second time to England on an unsuccessful mission to induce Elizabeth to acknowledge James VI. as her successor. In 1601, having again gone to England with the earl of Mar, to intercede for the ill-fated earl of Essex, and arriving after his execution, they adroitly converted their mission of supplication into one congratulating Elizabeth on her escape from the conspiracy. Owing to the judicious conduct of Bruce, the undisputed accession of James on the death of Elizabeth took place. Bruce, knighted and created Baron Bruce of Kinloss, accompanied James to England in 1603, and was made privy councillor and master of the rolls.

BRUCE, JAMES, a Scotch traveller, born at Kinnaird, Dec. 14, 1730, died April 27, 1794. He was educated in London and in the university of Edinburgh, and abandoned the profession of advocate, to which he had been destined, for a mercantile life. His wife dying soon after his marriage, he sought diversion from his grief in travel, made the tour of the continent, and at Madrid studied the numerous Arabic MSS. in the Escurial, but was forbidden by the Spanish government to publish them. He returned to England, engaged in studying the oriental languages, particularly the Ethiopian, and renounced commerce in 1763 to accept the consulship at Algiers. He was soon after selected by Lord Halifax to undertake what had baffled curiosity and power since the age of Cambyses, namely, the discovery of the source of the Nile. He left Algiers in 1765, visited rapidly Tunis, Tripoli, Rhodes, Cyprus, Syria and Egypt, and in Feb. 1770 reached the city of Gondar, where he began his explora-tions for the head of the Nile. After remaining 2 years in Abyssinia, and visiting the source of the Bahr-el Azrek, which he mistook for the true Nile, he returned through Nubia and Egypt, at-arms, 8,000 archers, and about 7,000 vassals narrowly escaping the plots of the savages and

the whirlwinds of the desert, and arrived in Europe while the report of his death was currest. The narrative of his voyages, published Ecaborgh in 1790, excited universal interest.

BRUCE, MICHARI, a Scottish poet, born at Kassaswood, in the county of Kinross, March 21,1748, died there, July 6, 1767. His parents were poor, but he was educated to become a minister of the sect called Burghers, of which they were members. At Edinburgh, among others, he became intimate with Mr. John Logan (himself subsequently a poet), who eventually collected and edited his friend's poems. By the time that Bruce was 18 he was attacked with consumption, and his spirits beame depressed by illness and poverty. To stain subsistence he now taught school in a country village for some time. Shortly before his demise he wrote his "Elegy."

BRUCIA, a bitter alkaline body, associated with the similar bodies, strychnia and igasuria, in the nux vomica and bean of St. Ignatius. It is crystallizable, soluble in hot and cold water and alcohol, and possesses similar medicinal properties to those of strychnia. As it has cely about 1/1 the strength of strychnia, this is used in preference. It was originally discovered by Pelletier and Caventon in the false

Angostura bark.

BRUCK, KARL LUDWIG, baron, Austrian minister of finance, born Oct. 18, 1798, at Eberfeld. In early life he was a merchant's derk in Bonn. Afterward he took a part in the campaign of 1814-'15, and in 1821, after an unsuccessful effort to obtain employment from the East India company in London, he went to Trieste, on his way to Greece, where he intended to join the war of indeproduce, but the merchants of Trieste induced him to resume commercial pursuits, and in 1838 be married the daughter of a merchant there and made that city his home, acquiring wealth and influence by successful trade. It was ewing to his exertions that the Trieste undeswriters formed in 1838 an association under the name of Lloyd Austriaco, of which he was director until 1848. His object was to simplify the extensive insurance business of Trieste, and # the same time to organize direct steamboat menction between Trieste and the Meditermail that the government conferred upon him the rank of baron, and subsequently appointed him its ambassador at the Frankfort parliament, in which the citizens of Trieste elected him as their representative. After the Viennese revo-lation of Oct. 1848, he was called upon to join the Schwartzenberg cabinet as minister of commerce and public works. He was active in the establishment of tribunals of commerce, in the reform of the post-office and the diplo-metic service, in the organization of telegraphs and railways, and in the creation of an Austrian mustime and commercial code. The adoption of the constitution of March 4, 1849, was in a great measure due to his exertions; he negoti-

ated the treaty of peace with Sardinia; and his memorable project of a commercial union between Austria and the German states was submitted to the respective governments in 1849, and again in 1850. In May, 1851, he withdrew from the cabinet, as he protested against the extravagant measures of the finance minister. In Dec. 1852, he concluded a commercial treaty between Austria and the German customs union; in 1858 he received the appointment of internuncio at Constantinople. He opposed the declaration of war by the sultan in 1853, and objected to the passage of the British fleet through the Dardanelles. He negotiated the convention of June, 1854, by which Austria gained a strong military position on the Danube as far as to the Pruth, without incurring any further obligation than that of defending the same. Since March 10, 1855, he has presided over the financial department in the Austrian government.

BRUCKENAU, a town of Bavaria, on the Sinn. It contains a royal castle, and is situated in the midst of beech forests and beautiful mountain scenery. Near the town stands a Franciscan convent, and about 2 miles distant, in the valley of the Sinn, are the chalybeate springs and baths of Bruckenau. A pumproom has been erected here by the present king, and in the summer season the place is

frequented by the Bavarian court.

BRUCKER, JAKOB, a German divine and historian of philosophy, born in Augsburg, Jan. 22, 1696, died Nov. 26, 1770. His great work is the Historia critica Philosophia, from the creation of the world to his own times, 5 vols. 4to, Leipsic, 1742. It went through 2 editions during the life of its author, and since his death has been repeatedly abridged, and freely used by historians of philosophy.

BRUEYS D'AIGALLIERS, FRANÇOIS PAUL, count, a French admiral, born in 1753, killed at the battle of the Nile, Aug. 1, 1798. He was the commander on that occasion, and while descending the quarter deck of his flag-ship was almost cut in two by a cannon ball. His officers attempted to carry him below, but he refused, exclaiming that "an admiral of France should die on his quarter-deck." Brueys had hardly expired when the magazine of his vessel took fire, and she was blown into ten thousand fragments.

BRUEYS, DAVID AUGUSTIN DE, a French theologian and dramatist, born at Aix, 1640, died at Montpellier, Nov. 25, 1728. He first embraced the cause of Protestantism, and was subsequently by the influence of Bossuet converted to Catholicism, and henceforth wrote

zealously in its defence.

BRUGES (Flemish, Brugge), a circle in the Belgian province of West Flanders, with a population of 122,500, and a capital of the same name, the population of which has diminished from 200,000 in former times to about 50,000, of whom not less than 15,000 are paupers. Bruges is connected with the ocean by the canal of Ostend, and by numerous canals and railways with the other parts of Belgium. It possesses spacious docks and excellent quays, which admit about 100 vessels of 200 to 300 tons. The shipowners of Bruges are engaged principally in fishing and coasting. Lace is the most important branch of manufacture, and there are also manufactories of facture, and there are also linen, cotton, and woollen goods, of soap, leather, tobacco, and porcelain. The fine quality of the water in the canals enhances the success of the dyeing establishments. The town presents a quaint and curious aspect, contains about 200 streets, 9 public squares, 54 bridges, and several beautiful fountains. The church of Notre Dame, with a sculptured virgin and child, supposed to be by Michel Angelo, the cathedral of St. Saviour, and the hospital of St. John, are remarkable for the treasures of art and monuments which they contain. The belfry tower in the great square is the finest structure of the kind in Europe, and its chimes, which are the most beautiful in Belgium, sound at every hour of the day and night. Bruges possesses a flourishing free academy of fine arts, a botanical garden, a library, a museum, a fine theatre, an agricultural society, an exchange, a commercial and other tribunals, a gymnasium, and a remarkably large number of charitable institutions. The corporation of weavers of Bruges was celebrated in the time of Charlemagne. From the 9th century till the middle of the 14th, the town was under the sway of the counts of Flanders, who contributed much to stimulate its prosperity, which reached the height of its splendor early in the 15th century, after having passed under the dominion of the dukes of Burgundy. Factories were established here by merchants from 17 states, 20 foreign ministers were accredited to its court. Philip the Good instituted the order of the golden fleece in honor of the remarkable prosperity of the woollen trade of the town. Bruges was then one of the great commercial empori-ums of the world, one of the leading commanderies of the Hanseatic league, the centre of resort for English, Lombard, and Venetian merchants, the great mart to which Constantinople, Genoa, and Venice sent their precious argosies laden with eastern produce, Persia its silk, England its wool, and India its spices. The merchants of Bruges had a large share of the business of the globe, while their manufacturers, especially in tapestry, excelled all their contemporaries. A native of Bruges established the gobelins in France under Henry IV.; another, named Berkes, discovered the secret of polishing the diamond. Hans Hemling and the brothers Van Eyck, practised their art at Bruges, and the fine arts had a full share of the general flourishing condition of the town. This great prosperity, however, engendered extravagant habits in dress and social life to such an extent that Charles V. was obliged to pass stringent sumptuary laws. The dominion of the house of Hapsburg proved fatal to the

prosperity of the town. The citizens, who had always been noted for the jealous care with which they guarded their privileges, imprisoned the Austrian archduke Maximilian for violating them, and to punish the town the trade was transferred to Antwerp, and its ruin was finally consummated by the persecutions of the duke of Alva at the end of the 16th century, when many of the inhabitants fied to England, where they introduced some of their native arts and manufactures. The town was on 2 occasions the asylum of English kings: once when Edward IV. fled from England, and again during the exile of Charles II., the latter inhabiting a house which still stands on the south side of the great square, at the corner of the rue St. Amand, bearing the sign, Au lion Belge.

BRUGES, HENRI ALPHONSE, vicomte da, a field-marshal under Louis XVIII., born 1764, died Nov. 4, 1820, served in his youth in the English navy in the expedition against Toussaint-Louverture, devoted himself subsequently to the cause of the Bourbons, followed the duke of Angoulème to Spain, and after the battle of Waterloo negotiated with the allied powers on the subject of the prisoners of war.

powers on the subject of the prisoners of war.

BRUGES, ROGER VAN, a Flemish painter and pupil of John van Eyck. He flourished in the middle of the 15th century, and was probably the same person as Magister Rogel, of Flanders, who painted in 1445 three pictures in one, which were presented by Don Juan II. to the Carthusian church at Miraflores. He was one of the few painters of his time who painted on canyas

the few painters of his time who painted on canvas.

BRUGG, or Bruck, a circle in the Swiss canton Aargau, on the Aar, with 12 parishes, fartile valleys, with manufactures of hosiery

canton Aargau, on the Aar, with 12 parishes, fertile valleys, with manufactures of hosiery and straw goods, and other goods, and a population of 17,800.—The capital, of the same name, with a population of 1,150, is surrounded by walls, defended by conical towers, and is built on a portion of the site of the ancient Vindonissa, some remains of which are still to be seen. In the vicinity are the ruins of the ancient castle of the counts of Hapsburg. The ruined abbey of Königsfelden is in the same neighborhood. The town is the centre of an active transit trade. An old bridge across the Aar at this place is the origin of its name. During the reformation, Brugg was called the Prophetenstädtchen, or the little town of prophetes, from the many theologians who were born here.

BRÜGGEMANN, KABL HEINRICH, a German journalist, born Aug. 29, 1810, was implicated in the movement of the Heidelberg students of 1830, and for some time detained in prison. Since 1845 he has been editorinchief of the Kölnische Zeitung, one of the most influential papers in Germany.

BRUGMANS, SEBALD JUSTINUS, a Dutch phy-

BRUGMANS, SEBALD JUSTINUS, a Dutch physician and naturalist, born at Francker, March 24, 1763, died in Leyden, July 22, 1819. He was first appointed professor of botany and afterward of natural philosophy at Leyden. On the

death of Voltelen he was made professor of chemistry, and in 1795 he was called to assist in organizing the military-medical department of Holland. In 1805 he and some other eminent Dutch physicians published the Pharmacopaia Betters; subsequently he was appointed chief physician of King Louis Bonaparte and councilor of state, and on the annexation of Holland to Frace, Napoleon raised him to the rank of inpector-general of the sanitary department in the French army. About the same period he was also elevated to the rectorship of the uni-About the same period he versity of Leyden. On the accession of the prince of Orange he was made president of the medical departments in the civil, military, and minial services of the Netherlands. He now restablished at the Hague the central laboratory of chemistry and pharmacy, which he had founded in 1795, but which had ceased to exist. During the campaign of 1815 the humanity of Bragmans was eminently conspicuous, and hew no distinction between allies and enemies. He was appointed in 1815 to bring back from Paris the objects of natural history which had been appropriated by the French during their

occupation of the Netherlands. BRUHL I. HEIMRICH, count, a German statesman, to whom Augustus III. of Saxony vas chiefly indebted for the crown of Poland, born in 1700, died in Dresden, Oct. 28, 1763. His obsequiousness and flattery gave him through life complete dominion over the mind of his master. Augustus, on becoming king of Poland, had embraced Roman Catholicism, and Brahl, in order to ingratiate himself still more with his sovereign, presently did likevise. His extravagance exhausted the public revenue, and covered his government with disgrace. On the death of Augustus in 1763, he was dismissed from office, which had such an effect on him, that he died in a few days after. The celebrated palace of Bruhl, in Dreden, was named after him. II. HANS Mozrz, count, a nephew of the preceding, born at Wiederau, Saxony, Dec. 20, 1736, died in London, Jan. 22, 1809. He was educated at Leipsic; held a diplomatic position in 1755; was sent to Warsaw in 1759, and in 1764 was appointed ambessedor in London. Here he married, and ever afterward made England his home, devoting many years of his life to the study of astronomy and kindred sciences. He built 2 observatories, one in London and the other at Harefield. Through life he was distinguished for great mechanical skill, displayed in the improvement of pianos and chronometers, and in the construction of astronomical instruments. In the various contrivances for determining the longitude at sea he particularly interested himself. He corresponded diligently with all the leading astronomers of his day, such as Zach, Fischer, Bode, Lalende, Piazzi, and the elder Herschel. The first named speaks of his patronage of learning and his scientific labors in terms of unbounded praise. In 1803, his infirmities undeed him to abandon his astronomical researches and he presented his library and instruments to the Leipsic observatory. He was a celebrated chess player. III. Karl Friedrich Moritz Paul, born at Pforten, May 18, 1772, died in Berlin, Aug. 9, 1887. He acquired some celebrity as editor of a theatrical journal, and as a promoter of the drama by private theatricals at Weimar. A performance of Thomas Moore's Lalla Rookh took place in the royal palace of Berlin in 1821 under his direction. In the latter part of his life he presided over the royal museum of art in Berlin.

BRUIN, JAN VAN, a Dutch philosopher and mathematician, born at Gorcum in 1620, died in Utrecht in 1675. He was a skilful dissector of animals, an able experimentalist, and an excellent astronomer. He was also a supporter of the Cartesian philosophy, and once engaged in a discussion with Vossius in defence of it.

BRUIX, EUSTACHE, a French admiral, born in St. Domingo in 1759, died in Paris in 1805. He was chosen by Napoleon to take command of the flotilla which was to convey across the channel the army destined to invade England.

channel the army destined to invade England. BRULLOW, KARL PAULOWITCH, a Russian painter, born in St. Petersburg, 1799, died near Rome, June 23, 1852. He enjoyed a high reputation in his native country, and officiated for several years as professor of historical painting

at the Russian academy of fine arts.

BRUMAIRE, THE EIGHTEENTH. In the new distribution of the almanac, which was attempted, among other more important changes, by the French revolutionists, the 9th of November came to be called the 18th Brumaire. It is famous in history as the day on which Napoleon began to put in execution his project for changing the republic-the fruit of all the agony and blood of the revolution-into a military monarchy. After his return from the East, and his triumphant progress from Fréjus to Paris, 1799, he was indicated no less by circumstances than by his own eminent ability, and his own wishes, as the nucleus of all the disaffected and ambitious elements which conspired for a change of government. France was then controlled by a directory of 5 members, a senate or council of the ancients, and a popular legislative branch, or the council of 500, organized according to the constitution of the year III. As a whole, it was an incapable and inefficient government, and in the general estimation greatly needed improvement. The republicans, with a majority of the council of 500, and Generals Bernadotte, Jourdan, and Augereau, wished to restrain the power of the directory, and discharge Barras, one of its members, but to uphold the constitution; Sieyès, one of the directory, with a majority of the ancients, desired some less democratic organization; Barras and the other directors wished to maintain their own power; while Bonaparte and his brothers, assisted by military officers and certain plotting civilians, were ready for any change, provided the effect of it would

be to throw the supreme power into their own hands. Accordingly the latter formed a conspiracy, with Sieyes and his friends, for the complete overthrow of the government; and to prepare the way for it, they invented reports of dangerous plots on the part of the Jacobins. which alarmed the timid and the friends of order generally. The day set apart for the execution of their scheme was the 18th Brumaire. Sieyès was given the council of ancients to manage; Napoleon undertook the military; and Lucien Bonaparte, who was president of the council of 500, that important body. As a last resort, however, as in all such cases, their reliance was upon the army, with which Bonaparte was an immense favorite. o'clock on the morning of the 18th, the ancients (with the exception of the republican members, who had not been notified) were assembled at the Tuileries. Sieyès aroused their fears by an animated address on the dangers of the republic, the plots of the Jacobins, and a meditated return of the reign of terror, and persuaded them to transfer the meeting of the legislative bodies to St. Cloud, on the pretence that they would there be out of danger. He also per-suaded them to appoint Bonaparte commanderin-chief of the military division of Paris. The removal of the chambers they had a right to effect by the constitution; but this appointment they had no right to make, yet it was made. Bonaparte at once made his arrangements for the disposal of the troops. Sieyès and Ducos resigned as members of the directory; Barras, another member, corrupt and cow-ardly, made secret terms with Bonaparte and also resigned, whereby the other two members, Moulins and Gohier, were left in a minority. Thus there was in reality no executive government; and the council of 500, which met at 11 o'clock, found that their session had been adjourned to the next day at St. Cloud. On the 19th Brumaire (Nov. 10), the two councils met at St. Cloud. The republican minority of the ancients complained fiercely of the trick by which they had been left out of the proceedings of the previous day, when Na-poleon appeared at the bar to justify the action. In the midst of considerable tumult, in which he spoke of volcanoes, conspiracies, traitors, dec., he lost his presence of mind, his language became confused and incoherent, and he did not recover himself till he caught a glimpse of the grenadiers outside, when he threatened the assembly with the army, if it dared to decide against him. In the council of 500 a more violent scene was enacted. Lucien Bonaparte read the resignation of the directors, the assembly shouting: "No Cromwell, no dictator, the constitution forever!" In the midst of the uproar Napoleon entered with four grenadiers. He attempted to address the assembly, which, furious at the outrage inflicted upon it by his presence, interrupted him with cries and clamors. "No soldiers in the sanctuary of the law!" they shouted, and crowded about

the general. He essayed to speak, but being more used to the command of an army than to that of a deliberative assembly, he stammered and hesitated, and could only get out a few broken sentences. At last, a voice from the military outside said, "Let us save our general," and a body of troops rushed in and tore Napoleon by main force from the crowd. No damage appears to have been done in this mélée beyond tearing the coat of one of the grenadiers. A motion was then made to outlaw Bonaparte; Lucien refused to put it, and then left the chair. At that crisis a body of grenadiers, despatched by Napoleon, entered the hall and carried Lucien off. As soon as he reached the military outside, already somewhat exasperated by the treatment which Napoleon had received, he exclaimed that factious men, armed with daggers, and in the pay of England, had set the deliberations of the representatives of the people at defiance; and that he, as president of the assembly, requested the military to quell the disturbers. The army hesitated, when Lucien swore that he "would stab his own brother if ever he attempted any thing against the liberty of the nation." Murat, at the head of a body of grenadiers, entered the hall and ordered the deputies to disperse. They replied with vociferations and curses, and shouts of "The republic forever!" The drums were then ordered to beat, the soldiers levelled their muskets, and the council escaped by the windows, as it could. Meantime Napoleon repaired to Paris, circulated reports of his having been attacked with daggers, procured a person named Thomé to assert that he had himself received the wounds intended for Napoleon, and in other ways won upon the feelings and affections of the troops. Sure of their support, he was already master of the situation. The council of 500 was dissolved by a vote of some 50 members, who also, in connection with the ancients, passed a decree making Sieyes, Napoleon, and Ducos provisional consuls, invested "Thus was with supreme executive power. consummated," says Mignet, "the final blow against liberty, and from that day brute force commenced its dominion." Others, however, look upon this coup d'état as a necessary termination to a reign of anarchy and confusion, although none seek to disguise the fact that it was an act of violence, in which the entire civil polity of a nation was subverted in order to make way for the supremacy of a single man.-(See Bourrienne, Mémoires de Napoléon; Thiers, Histoire de la révolution Française; Mignet, Histoire de la révolution Française; "Annual Register" for 1799; M. de Barante, Histoire du directoire de la republique Française, 2 vols., Paris, 1855.)
BRUMATH, or BRUMPT, a French town,

BRUMATH, or BRUMPT, a French town, in the department of Bas-Rhin, on the river Zorn, within a short distance of Strasbourg, celebrated for a number of tumuli in which have been found pieces of wood, a hatchet, a knife, a ring, and some other objects, all of Cel-

ed the 4th by as a total stranger. Brummell, who knew his horror of having his corpulency alluded to, asked, in a most distinct tone, just as the prince passed him, "Alvanley, pray who is your fat friend?" This insolence was dexterous, for it hit the prince on the very spot where he was notoriously thin-skinned. After this, when Brummell's funds began to run low, he became a gambler. Play ran high at the clubs. One night, in 1814, Brummell lost every shilling he had in hand. He raised money at usurious interest, appeared at the opera as usual, and then, entering a friend's carriage, posted off to Dover, and was safe in Calais the next day. His capital was reduced to 25,000 francs, on which, with occasional remittances from his brother in England, he contrived to live for some years. He took his reverses calmly, remarking, in reply to some regrets about his exile at such a place as Calais, "May not a gentleman manage to spend his time pleasantly enough between London and Paris?" In 1821, when George IV. passed through Calais, en route to Hanover, Brummell made some timid advances, which the king contemptuously disregarded. At last, to place him above actual want, Brummell was appointed English consul at Caen, where he continued for several years, until the office was abolished as unnecessary. Occathe office was abolished as unnecessary. sional remittances from his family and a few surviving friends in England were seized, to pay a few debts which he had contracted, and at last, reduced to absolute penury, the former associate of royalty and leader of fashion died in a hospital for lunatic mendicants at Caen, at the age of 62. He had spent a quarter of a century in exile, and was only 87 when his reign in London came to a sudden close. Brummell found it very difficult to master the French language, and Byron remarked on the subject that "like Napoleon's progress in Russia, Brummell's progress in French was stopped by the elements."

An amusing life of Brummell, by Capt. Jesse, was published in 1844, which gives a graphic account of his whole career, and a fair estimate of his character.

BRUN, FRIEDERIKE SOPHIE CHRISTIANE, a German authoress, born near Gotha, June 8, 1765, died in Copenhagen, March 25, 1835. She was a daughter of Balthasar Munter, a preacher and lyrical poet, and in her 18th year was married to Konstantin Brun, a wealthy Danish functionary. She accompanied her husband first to St. Petersburg, then to Hamburg, where for several months she enjoyed an intimate acquaintance with Klopstock, and then to Copenhagen. In the winter of 1788, in an excessively cold night, she suddenly lost her hearing, and from that time devoted herself, for many years, to travelling and to literary composition. She became acquainted with many of the most eminent literary persons of her day; passed the winter of 1801 at Coppet, with Madame de Staël, after which she again resided for several years in Italy. She finally returned to Copenhagen in 1810, where

her house was a favorite resort for the literary notabilities of that capital. Most of her works are written in German, comprising poems, travels, and essays on art.

travels, and essays on art.
BRUNAI, a Malay state of Borneo, extending from the mouth of Batang-Lupar river in long. 108° 88' E. along the N. W. coast to the bay of Sandakan, adjoining the territories of the sultan of Sooloo. Its inland boundary is a mountain range, at an average di-tance of 90 miles from the coast, called the Madei and Anga-Anga range, forming an unbroken chain from the head waters of Batang-Lupar to Lake Kini-Balu, which is in the same latitude with the bay of Sandakan. The coast line is about 900 miles; area, 28,000 sq. m. The state comprises also several extensive islands, Bangney, Balabac, Malawali, Mantanani, Mangkalaan, and numerous islets, with about 1 of the large island of Palawan. Probable pop. of the Bornean portion, 300,000; of the islands, 40,000. The territory of Brunai is mostly covered with a dense tropical forest, accessible only to the Dyaks and orang-outangs; and there has been no communication with the interior, by Europeans or civilized Asiatics, except along its water courses. These are numerous; the mouths of not less than 21 can be counted, which disembogue into the China sea, between Cape Sam-paninanjo and Cape Dutoo, all of which are navigable far inland for vessels of light draught of water, and 2, the Rajang and Brunai, for vessels of the largest class. Extensive fields of valuable fossil coal have been discovered on many of these streams, and European companies have commenced their development. The chief exports of native production are pepper, ratans, sago, camphor, birds' nests, bezoar stones, vegetable tallow, ebony, pearl shells, and tortoise shell. Europeans are engaged in the mining and export of coal and antimony, the latter being found in this territory more abundantly than in any other part of the world. The principal imports are European and Bogis manufactured cloths, either plain blue or small checks, brass wire, fire-arms, coarse crockery, unwrought iron in small bars, Chinese urns, iron caldrons, and tobacco. Salt is an important item of import, as on account of the low, alluvial character of the whole coast of Borneo, none is manufactured in the island. The sale of it in this territory is a monopoly of the Malay sultan, as it is of the Dutch government wherever established. There is no money in use, either among Malays or Dyaks; even in the shape of coin it has not yet been employed. The chief standards of value, in the intercourse between the Malays of the coast and the rude Dyaks of the interior, are small bundles of iron rod, of the weight of a Chinese cattie, or 11 lb., and pieces of Bugis manufactured checks. Among the Dyaks themselves, smoked human heads constitute the principal medium of exchange. Of the population of this territory, not more than 1 are Malays, the ruling race. The most of them claim to be descendants of

conquerors, or emigrants from Menangkabau in Semetra; while a portion are colonists of piratical Lanuns from Mindano and the Sooloo idenda, and some Bajaus, or Malay sea gypsies. The government is an absolute despotism; and the present sultan, Omar Saffeedin, is claimed to be the 80th in direct line from the first Sumstran conqueror. The aborigines are the Dyaks, the same race found throughout Borneo; and of these there are 40 different tribes in this territory, each one of which speaks a language unintelligible to the others. The Kayans, a tribe of Dyaks found between the Rajang and Baram rivers, cultivate corn and cotton, and employ the buffalo in their agriculture; and Kayan artisans fabricate the best sword and bress blades in the archipelago. Their manive and other cutting weapons are famous areashout the East, and are known in Europe. The Serebes, Sakarran, and Kanowit tribes, who inhabit the territory adjacent to rivers of the mme name, are noted for their piratical and head-hunting propensities, and figure promi-menty in the history of Rajah Brooke, who on one occasion, with the aid of British ships-ofver, slaughtered about 2,000 of these tribes. The coal of Labuan and of the mainland of Brunsi is of excellent quality for steamship uses, being considered equal to the best Wigan or email coal. It is mined at a cost of 5s. sterling, or about \$1 25, per ton; and delivered to the government at the pit's mouth for 11s., or \$2 60, per ton. A royalty of 2s. 6d. per ton i paid by the mining contractors.—The sultan of Brunsi made a treaty with the United States in 1850, through our consul at Singapore, Mr. Belestier, which secures to Americans an unretricted residence, and permission to acquire and hold property in Brunai territory; and provides that, except a charge of \$1 per registered ton on American vessels, no other impost shall be levied on their trade; that there shall be no export duties; and that American citizens committing offences, shall be under the jurisdiction of the American consul. Congress has established a consulate at the port of Brunai; but the office has not yet been filled, as no salary was stached to it.—The town of Brunai, and capital of the territory, is situated on the river of the same name, about 14 miles from its mouth, is let. 4° 55' N., long. 114° 55' E. It is an aquatisety, like Palembang and Acheen in Sumata; the most of its bamboo houses being afloat, and meered to the banks of the river, or of the canals communicating with it, by strong cables of coir, and gangways of split bamboos. All communication between different parts of the town is by best. The state processions are in ornamented prahas or barges; the amusements are on the water; infants swim in it before they can walk; the marketing is transacted in feets of sampans or small boats, that move from one smal to another. Pigafetta gives an inter-sting account of his visit to Brunai in 1521, and of the reception by the sultan of the Span-in officers of Magellan's expedition. This state

was evidently of much greater consequence at that period than now. He says that the town contained 25,000 houses. Its present population is only about 15,000.

BRUNCK, RICHARD FRANZ PHILIPP, a German philologist and critic, born at Strasbourg, Dec. 80, 1729, died June 12, 1808. He was educated in the colleges of the Jesuits at Paris, served in Hanover as commissary of war, became acquainted at Giessen with a learned professor, who inspired him with an admiration of the Greek literature; returned at the age of 80 years to Strasbourg, where he studied in the university till he had mastered the Greek language. As an editor he made no commentaries, but occupied himself only with the text. Persuaded that all faults in the language of the Greek poets came from the carelessness of copyists, he corrected the texts with the utmost fearlessness, changing, omitting, interpolating, and transposing with an audacity often happy in respect of taste and sentiment, but censura-ble in point of criticism. Yet he rendered great service to Greek learning from his accomplished scholarship, and from the circumstance that he held a lucrative official position which enabled him to issue his editions without depending on a publisher. He edited the Greek anthology, all of the tragedies of Sophocles, and several of those of Æschylus and Euripides, the Greek gnomic poets, and the works of Anacreon, Aristophanes, and Apollonius of Rhodes. His labors were interrupted by the French revolution, whose principles he embraced with ardor. He was imprisoned during the reign of terror, was twice ruined in property, and obliged with tearful eyes to part with his books. From this time Greek letters became odious to him; he transferred his love to Latin authors, and edited Virgil, Plautus, and Terence.

BRUNDUSIUM. See BRINDISI.

BRUNE, Guillaume Marie Anne, a marshal of the French empire, born at Brives-la-Gaillarde, March 13, 1768, died in Avignon, Aug. 2, 1815. His father sent him to Paris to study the law, but on leaving the university, financial difficulties caused him to become a printer. In the beginning of the revolution, together with Gauthier and Jourgniac de St. Méard, he published the Journal général de la cour et de la ville. He soon embraced the party of the revolution, enlisted in the national guard, and became an ardent member of the club of the cordéliers. His grand figure, martial air, and boisterous patriotism, rendered him one of the military leaders of the people in the demonstration of 1791 in the Champ de Mars, which was crushed by Lafayette's na-tional guards. Thrown into prison, and the rumor spreading that the partisans of the court had attempted to get rid of him by odious means, Danton was instrumental in procuring his release. To the protection of the latter, among whose partisans he became prominent, he owed a military appointment during the famous

days of Sept. 1792, and his sudden promotion. in Oct. 12, 1792, to the rank of colonel and adjutant-major. He served under Dumouriez in Belgium; was sent against the federalists of Calvados, advancing under Gen. Puisaye upon Paris, whom he easily defeated. He was next made a general of brigade, and participated in the battle of Hondschoote. The committee of public safety intrusted him with the mission of putting down the insurrectionary movements in the Gironde, which he did with the utmost rigor. After Danton's imprisonment, he was expected to rush to the rescue of his friend and protector, but keeping prudently aloof during the first moments of danger, he contrived to shift through the reign of terror. After the 9th Thermidor he again joined the now victorious Dantonists, and followed Fréron to Marseilles and Avignon. On the 18th Vendémiaire (Oct. 5, 1795) he acted as one of Bonaparte's undergenerals against the revolted sections of Paris. After having assisted the directory in putting down the conspiracy of the camp at Grenoble (Sept. 9, 1796), he entered the Italian army in the division of Massena, and distinguished himself during the whole campaign by great intre-pidity. Wishing to propitiate the chiefs of the cordéliers, Bonaparto attributed part of his success at Rivoli to the exertions of Brune, appointed him general of division on the battle-field, and induced the directory to instal him as commander of the second division of the Italian army, made vacant by Augercau's departure for Paris. After the peace of Campo Formio he was employed by the directory on the mission of first lulling the Swiss into security, then dividing their councils, and finally, when an army had been concentrated for that purpose, falling upon the canton of Bern, and seizing its public treasury; on which occasion Brune forgot to draw up an inventory of the plunder. Again, by dint of manœuvres, bearing a diplomatic rather than a military character, he forced Charles Emmanuel, the king of Sardinia, and the apparent ally of France, to deliver into his hands the citadel of Turin (July 3, 1798). The Batavian campaign, which lasted about 2 months, forms the great event of Brune's military life. In this campaign he defeated the combined English and Russian forces, under the command of the duke of York, who capitulated to him, promising to restore all the French prisoners taken by the English from the commencement of the anti-Jacobinic war. After the coup d'état of the 18th Brumaire, Bonaparte appointed Brune a member of the newly created council of state, and then despatched him against the royalists of Brittany. Sent in 1800 to the army of Italy, Brune occupied 3 hostile camps, intrenched on the Volta, drove the enemy beyond this river, and took measures for crossing it instantly. According to his orders, the army was to effect its passage at 2 points, the right wing under Gen. Dupont between a mill situated on the Volta and the village of Pozzolo, the left wing under Brune himself at

Monbazon. The second part of the operations meeting with difficulties, Brune gave orders to delay its execution for 24 hours, although the right wing, which had commenced crossing on the other point, was already engaged with far superior Austrian forces. It was only due to Gen. Dupont's exertions that the right wing was not destroyed or captured, and thus the success of the whole campaign imperilled. This blunder led to his recall to Paris. From 1802 to 1804 he cut a sorry figure as ambassador at Constantinople, where his diplomatic talents were not, as in Switzerland and Piedmont, backed by bayonets. On his return to Paris, in Dec. 1804, Napoleon created him marshal in preference to generals like Lecourbe. Having for a while commanded the camp at Boulogne, he was, in 1807, sent to Hamburg as governor of the Hanseatic towns, and as commander of the reserve of the grand army. In this quality he vigorously seconded Bourrienne in his peculations. In order to settle some contested points of a truce concluded with Sweden at Schlachtow, he had a long personal interview with King Gustavus, who, in fact, proposed to him to betray his master. The manner in which he declined this offer raised the suspicions of Napoleon, who became highly incensed when Brune, drawing up a convention relating to the surrender of the island of Rugen to the French, mentioned simply the French and the Swedish armies as parties to the agreement, without any al-lusion to his "imperial and royal majesty." Brune was instantly recalled by a letter of Berthier, in which the latter, on the express order of Napoleon, stated "that such a scandal had never occurred since the days of Pharamond." On his return to France, he retired into private life. In 1814 he gave his adhesion to the acts of the senate, and received the cross of St. Louis from Louis XVIII. During the Hundred Days he became again a Bonapartist, and received the command of a corps of observation on the Var. where he displayed against the royalists the brutal vigor of his Jacobin epoch. After the battle of Waterloo he proclaimed the king. Starting from Toulon for Paris, he arrived at Avignon, on Aug. 2, at a moment when that town had for 15 days been doomed to carnage and incendiary fires by the royalist mob. Being recognized by them, he was shot, the mob seizing his corpse, dragging it through the streets, and throwing it into the Rhone. "Brune, Massena, Augereau, and many others." said Napoleon at St. Helena, "were intrepid depredators." In regard to his military talents he remarks: "Brune was not without a certain merit, but, on the whole, he was a général de tribuns rather than a terrible warrior." A monument was erected to him in his native town in 1841.

BRUNEHAUT, or BRUNEHILDE, a famous queen of Austrasia, the eastern kingdom of the Franks, born in 534, killed in 614. The daughter of Athanagild, the Visigoth king of Spain, she married in 568 Siegbert, king of

of his life from the breaking in of the water. He was long occupied on an engine driven by carbonic acid gas, designed by his father, the use of which as a motive power was abandoned from economical motives, although the machinery was brought to high perfection. At the commencement of the railway system of England, Mr. Brunel threw himself with ardor into the movement. He planned the Great Western, the noblest and most massively constructed line in the world. He designed the broad gauge, on which the highest locomotive speed hitherto known is attainable, which cannot, however, be said to answer in an economical point of view. We believe that he is the inventor of the skew bridge, by which the inconvenience in railway engineering of constructing bridges at right angles with a water or roadway is avoided. Beside being engineer-in-chief to the Great Western railway, and its numerous connecting lines, he was the constructor of the Great Western steamship, the first which regularly traversed the Atlantic, and which traded for many years between Bristol and New York, afterward of the Great Britain screw steamship. and lately of that prodigious result of skill and ingenuity, the Leviathan. Mr. Brunel took part in the floating and raising of the Conway and Britannia tubular bridges, constructed some of the most important docks on the English coast, conducted the works of the Tuscan portion of the Sardinian railway, and of other foreign railways, and during the war with Russia he had the entire charge of establishing and organizing the Renkioi hospitals on the Dardanelles. The Box tunnel on the Great Western railway, near Bath, is a fit pendant to his father's Thames tunnel. The Hungerford suspension bridge on the Thames, at London, the largest span in England, is a model of lightness and elegance. As may be inferred from his professional achievements, his activity and industry are absolutely indefatigable, while his enthusiasm and self-confidence are unbounded. On the latter point it is related that when the controversy between engineers on the respective merits of the broad and narrow gauges was at its height, Mr. Brunel offered to drive one of his own ordinary broad gauge locomotives, with a common load, at 100 miles an hour, if any narrow gauge en-gineer would accept the challenge. None was found daring enough to take it up. The history of this gauge controversy is fully detailed in Mr. Smiles's "Life of George Stephenson." Mr. Brunel is vice-president of the institution of civil engineers and of the society of art, fellow and member of the council of the royal society, and member of many other learned societies

BRUNELLESCHI, FILIPPO DI SEE LAPPI, an Italian architect, born in Florence in 1877, died there in 1444. He first studied painting and sculpture, and brought the art of perspective to perfection; but as an architect he gained most distinction, having, according to his countrymen, revived the Dorie, Ionic, and Corinthian

orders. His great works are the cupola of the church of Santa Maria del Fiore at Florence, the celebrated Pitti Palace at Florence, and the abbey at Ficeole.

BRUNET, JACQUES CHARLES, a French bibliographer, born in Paris, Nov. 2, 1780. The son of a bookseller, he early acquainted himself with rare editions and copies of books, and made several catalogues of old libraries. Important work is a Manuel du Libraries et de l'amateur de livres, which appeared in 1810, and to which a supplement of new bibliographical researches was added in 1884. A 4th edition in 5 vols. appeared in 1842—'44, and a 5th edition has been announced for 1858. The completeness of this work makes it of value to the bibliographers of all countries. In 1853 he published researches upon the original editions of Rabelais.

BRUNETTI, ANGRIO, a leader of the Roman democracy in 1848 and 1849, more generally known in Rome under the name of Ciceruscchia. A carman by trade, he obtained much influence over the Roman populace, which during the time of the reformatory aspirations of Pius IX. he exerted in the pope's favor, but subsequently in favor of Mazzini, whose cause was to a great extent indebted to Brunetti for its success. After the occupation of Rome by the French, Brunetti removed to Genoa, and subsequently to France. His execution, by Austrian soldiers, was reported in 1856. According to another report he has been seen at a later period, at Kertch, in the Crimea, carrying on a successful trade as a sutter.

trade as a sutler.

BRUNN (Slavic, Brno, a ford), a circle in Moravia; pop. 869,200. The capital, of the same name, pop. 45,000, is situated on a declivity at the confluence of the Schwarza and the Zwittawa, and is connected by railway with Vienna and Prague. The streets are generally narrow and crooked, but are well paved and lighted, and relieved by large open squares, in several of which are fountains. Fortifications separate the city from a number of suburbs. It was formerly defended by the castle of Spielberg, which stands on a high hill just back of the town. This castle was converted into a state prison, and was the place of confinement of Bilvio Pellico, and of other political offend-ers. The last remnants of its fortifications were destroyed by the French in 1809. The city contains many fine buildings, some of the most notable of which are the cathedral the church of St. James, built between 1814 and 1480, the Landhaus, formerly a rich Augustinian convent, the barracks, once a Jesuit col-lege, the city hall, and the palaces of Prince Dietrichstein and Prince Kaunitz. A public park, the Augarten, was opened by Joseph IL., and in the public gardens of the Franzenburg quarter is a monument to the emperor Francis L The Zderad monument—one of the most ancient of Moravia—stands outside of the town. Brunn is a bishop's see, and the seat of the principal law and military courts for 20 BRUNO

which alone would have made him a heretic; for in those times Aristotle's philosophy had almost the sanctity of religion, notwithstand-ing the courageous attempts of the spirited Peter Ramus to overturn it. Bruno defended his opinions in public discussions with Hennequin and others, but at last, when he had set up a complete pantheistical system in his writings, Paris became a dangerous place for him, and in 1586 he went to Germany. After a brief stay at Marburg, he settled at the university of Wittenberg as a lecturer on philosophy and mathematics. But his restlessness did not allow him to remain there more than 2 years. In his valedictory address he paid the highest tribute to the genius of Luther, but he declined the pressing invitations which he received to join the Lutheran church as persistently as he had those of the Calvinists at Gene-For 4 years he went from one German university to another, lecturing now at Prague, then at Helmstädt, then again at Frankfort, until, in 1592, contrary to the urgent advice of his friends and well-wishers, he ventured to re-turn to Italy. There he remained for 6 years, living in Padua, unmolested by the ecclesiastical authorities, and devoting his time to philosophical researches and literary pursuits. At last, in 1598, when on a visit to Venice, he was arrested by the inquisition, sent to Rome, and kept in a dungeon for 2 years, in the hope that his physical sufferings would make him recant his doctrines. But in this his opponents were mistaken. He would not falsify his opinions even to save his life. Accordingly, he was publicly burned at the stake as a heretic, an infidel, and a breaker of his vows. He died as he had lived. Even when the flames had enveloped him, and life had become almost extinct, he turned his face away in disgust from a zealous monk who held out to him a crucifix.—Bruno was a man of great mental activity, facility and breadth of perception, boldness of thought, and of a vivid imagination, aided by extraordinary power and brilliancy of expression, both in speaking and writing. As a philosopher, his place is upon the dividing line between those devotees of scholasticism and classicism-who, during the first half of the 16th century, cultivated a kind of philosophical speculation, which bore the same relation to true philosophy that alchemy sustains to chemistry,—and the really original thinkers and creators of modern philosophy who appeared in the course of the 17th century. Guided in his earliest reasonings by the Electic philosophers, he drew from them his first crudeconceptions of the identity of God and the universe. But these ideas were strangely and fancifully blended not only with the mental ecstasies of the Christian mystics, but also with the first vague and imperfect revelations of modern astronomy, with some coarse fragments of astrology, and even with some of the abstruse cabalistic and metaphysical ciphering of Raymond Lully. Thus his philosophy appears as a remarkable compound of strange ingredients,

held together more by the force of intuition than by argument or logic. Still, such as it is, it has proved very captivating, and not without influence on the development of modern thought. Montaigne excepted, there is no philosopher of the 16th century who has been so frequently a subject of research and comment by modern scholars as Giordano Bruno. Descartes has borrowed largely from him, and Spinoza's system would appear almost like Bruno's, refined in the logical crucible of Descartes. Nay, even with some philosophers of the 19th century Bruno has been a favorite. One of the profoundest works of Schelling bears the name of Bruno on its title ("Bruno, or the Divine and the Natural Principle of Things"), and this once more directed the general attention of scholars to Bruno's works, which had become extremely rare. They have been republished since then, those written in Italian by Wagner (Opers di Giordano Bruno, 2 vols., Leipsic, 1830), those written in Latin (Jordani Bruni Nolani scripta qua latine redegit omnia), by Girorer, in his Corpus Philosophorum (Stattgart, 1834). The works of Bruno are numerous and of the most varied character. It has been stated already that he was the author of a comedy which, by the way, was at a much later period considered good enough to be adapted to the French stage. His flashing wit, st least what in those times was honored with that name, and his keen perception of the ridioulous, prompted him to write satires which even now, when the interest in their subjects has entirely passed away, are agreeable reading. Of these, the Spaccio della Bestia trionfante ("Expulsion of the Triumphant Beast"), a setire on the immorality of the times, and the Cabala del cavallo Pegaseo coll'aggiunta del asino Oillenico, a satirical eulogy on ignorance, were the best. The Cona delle Conori ("Table-talk on Ash Wednesday") is a spirited dialogue in defence of the Copernican theory. But those of his works in which he has developed his philosophical views in the clearest and most concise form, are the essays, Della causa, principie, ed uno, Dell'infinito universo, e mondi, and De monade, numero, et figura. In his system there is but one fundamental principle, one substance, whose existence is real and original. This eternal and infinite being produces by contraction or expansion innumerable apparitions whose existence is but secondary, merely a shadow of that of the original being. God and the universe are identical; the universe is infinite. Every being or thing (ens) has, beside the innermost principle of its existence, a cause of existence. While the former is the immanent condition, the latter is the immediate source of existence. The original cause is the universal intellect which shapes and moulds matter into individual forms. In the harmonious perfection of the universe, all possible forms would obtain real existence in all portions of matter. Every form being the result of an intellectual action, and matter being conceiv-

	≜ ×	10, 84. III.	Pop.
	Brunswick		68,614
1	Wolfenbüttel	280	52,496
	Helmstädt		44,067
ä	Gandersheim	816	42,101
	Holzminden		88,586
6,	Blankenburg	. 178	22,479
		1,594	969,218

About 240,000 of the inhabitants are Protest-The general character of the surface is hilly, and in the mountainous districts the climate is severe and the harvests late. About } of the land is arable, 1 thickly wooded, and The largest rivers much of the rest moorland. are the Ocker, Leine, and Weser, the last of which drains the greater part of the duchy and has many affluents. Brunswick may be divided into the mining districts, which lie chiefly among the Hartz mountains, and the agricultural regions, which comprise nearly all the rest of the country. Grain, fruit, tobacco, flax, cattle, and horses are raised in the latter, while the former are rich in gold, silver, copper, lead, iron, sulphur, and coal. The mines, in some of which Hanover has a joint interest, are not now so productive as in former times, but are still of high value. Other minerals, such as marble, alabaster, limestone, gypsum, potters' clay, asbestus, asphaltum, jasper, and agate, are found in various localities. Salt is obtained in abun-dance. The manufactures are inconsiderable. The making of linen once employed a number of hands, but is now declining. Spinning is a favorite occupation throughout the duchy, and there are several camlet manufactories, dyehouses, paper, oil, and saw mills, breweries, iron works, and manufactories of lacquered wares and porcelain. The advantages of railway communication with Hanover, Magdeburg, and Neustadt, have given to trade a magnitude scarcely to be expected from the geographical contion of the country. The university of Helmstådt was suppressed in 1809, but there are 2 seminaries, 5 gymnasia, 2 normal, 21 Latin, and 869 common schools, and a library at Wolfenbuttel, of considerable repute.—The form of government is a limited hereditary monarchy, the supreme power being vested in the duke and a legislative body of 1 chamber, consisting of 48 members, of whom 10 are chosen from the nobility, 12 from the towns, 10 from the rural districts, and 16 from the people at large. They are elected for 6 years, } going out of office every 8 years. They assemble triennially on convocation by the duke, but in certain cases may meet without his authority. The duchy holds the 18th place in the German confederation, has 2 votes in the plenum assembly, 1 vote with Hanover in the diet of the German states, and contributes 2,096 men to the federal army. Its own force in time of war is 4,857 men. The public debt in 1855 was 7,168,524 thalers, including 4,078,000 thalers for railways, and the budget for the 8 years 1855-'6-'7 presented an aggregate revenue of 4,219,000 thalers, and the same aggregate amount of expenditure.-The capital of the

above-described duchy, of the is situated on the Ocker, CUMB by railways with the other u It is said to have been 1 many. the 9th century, by Bruno, v Henry the Lion, ranked in among the first cities of the hauseatic and, although much less important then mer times, it continues to be one of active cities of N. W. Germany. fairs held here are, after those of I the 2 Frankforts, the most animated in vny. The pork sausages of Brunswick (bruns schweiger Wurst), and its beer, have acquire great celebrity; the latter is 1 name Braunschweiger Mumme, Mumme, who was the first to present 1492. The trade in this beer extension in to mer years to East India. The book tradition of great importance. The principal policy of great importance. lishing house is that of Vioweg. Brunswich the seat of a bank and of several banking estalishments. The appearance of the town is as tiquated, but there are several hand and promenades. The new du magnificent building, with beautual pleasur rounds. The most interesting monuments the ancient cathedral of St. Blaize are the tomi of the ducal family, comprising that of Caroliz of Brunswick, queen of George IV. There are I churches and a synagogue. The museum in the churches and a synagogue. arsenal contains a gallery of valuable painti There are also many private galleries. The prominent of the institutions of learn Collegium Carolinum, which was for 1745. Monuments have been erected to the dukes of Brunswick who fell at Jena and Quatre Bras; to the memory of Schill and m companions, 14 of whom were shot here; and Lessing, who died here. Rietschel's statue honor of Lessing was erected in 1858. The most extensive of the many charitable and say itary institutions is a great asylum which a commodates 250 orphans. The town suppor a good theatre and several journals, of which the Doutsche Reichsseitung is the best. Po about 88,000.

BRUNSWICK, House or, one of the olde families in Germany, a branch of which occipies the throne of Great Britain. The territor which now forms the duchy of Brunswic formerly belonged to the part of Saxony which Charlemagne united to his empire. With the other Saxon provinces it was governed succesively by the princes of the houses of Sax Billing, Supplinburg, and Guelph. The Guelphouse, of Italian origin, obtained, in the persof Otho the Young, in 1235, the city of Brunwick, as a flef of the empire, which, with its dependencies, was then first erected into a duch. The 2 sons of Otho, Albert and John, reignin common from 1253 to 1267, and then vided the paternal inheritance. John receives the city of Hanover and the duchy of Lunburg; Albert, the duchy of Brunswick, the Hartz, and the district of the Weser; the cit

d Brunswick remained common property. John and Albert thus founded the elder branchand Laneburg and Wolfenbüttel. The first of these became extinct in 1869, and its possessions returned to the line of Wolfenbüttel. Albert left 8 sons, Henry, Albert the Great, and William, who divided the inheritance, and fended the 8 lines of Grubenhagen, Gottingen, and Wolfenbüttel. The first of these divided into 2 branches in 1861, both of which became exinct in 1596, and their possessions returned to the line of Wolfenbüttel. The Göttingen branch became extinct in 1468, and its possessions were transferred to the duke of Kalenberg. From the Wolfenbüttel branch sprang in 1409 the 2 new branches of Luneburg and Wolfesbüttel-Kalenberg, the latter of which in 1634 transferred its possessions to the duke of Bruswick-Lüneburg-Dannenberg, a descend-at of the Lüneburg branch. The Lüneburg branch had divided in 1569, and had another of the family of Brunswick-Lune-burg, which has furnished the electoral and royal dynasty of Lüneburg-Hanover. Henry, duke of Brunswick-Luneburg-Dannenberg, who died in 1598, was the founder of the present dynasty of Brunswick. His line was divided in 1666 into the branches of Brunswick-Wolfenbuttel and Brunswick-Bevern, the former of which became extinct in 1785, the possessions pasing to the latter, which has retained them mulvided from that time to the present. Among the queens belonging to this family have been Sophia Dorothea, wife of George I., hing of England; Amelia Elizabeth Caroline, the wife of George IV.; and Sophia Charlotte and Sophia Dorothea, queens of Prussia, the in wife of Leopold, the present king of the Bigian, was Charlotte Augusta, daughter of Omes Caroline of England.—BRUNSWICK-LÜNE-Mag, Ersser, duke, born in 1497, died in 1546, subraced the doctrines of Luther, signed the enfession of Augsburg, adhered to the Smalkal-dess league, and had his eulogy pronounced by Melenchthon.—BRUNSWICK-LÜNEBURG, CHRISmax, duke, born in 1599, died in 1626, was strached during the 80 years' war to the elect-or palatine, Frederic V., who became king of emia. After the flight of that prince he ravaged Heese and the electorate of Mentz, was defeated by the imperialists on the Main, extered the service of the Dutch in 1622, forced the Spaniards to raise the siege of Berg-op-Zoom, but was afterward again defeated by Tilly. His motto was, "Friend of God, enemy of priests."—BRUNEWICK-LÜNEBURG, ERNST August, dake, elector of Hanover, born in 1620, died in 1698, served the emperor Leopold L in his war against France, for which he was rewarded with the electoral dignity in 1692. By his marriage with Sophia, daughter of the platine Frederic V., and granddaughter of lame I, king of England, his house obtained a right to the throne of England. His son, George Louis, subsequently became king of

England, with the title of George I.-Bruns-WICK, FERDINAND, duke, a celebrated general in the 7 years' war, born at Brunswick, Jan. 11, 1721, died July 8, 1792, entered the Prussian army in 1739, assisted at the capture of Prague, obtained in 1757 the command of the Anglo-Hanoverian army, defeated the French and Hessians at Minden and at Crevelt, and in 1768, by reason of a disagreement with the king, retired to his castle at Vechelde, where he occupied himself with freemasonry, and became grand-master of nearly all the lodges in Germany.—Brunswick, Karl Wilhelm Fradian, duke, a Prussian general, born at Wolfenbuttel, Oct. 9, 1785, died near Altona, Nov. 10, 1806. His services during the 7 years' war were celebrated by Frederic the Great in a poem. He participated in the battle of Crevelt in 1758, and in 1787 marched into Holland to restore the hereditary stadtholder. After the treaty of Pilnitz he was intrusted with the command of the allied armies against France. He published at Coblentz in 1792 his famous manifesto, intending to march directly upon Paris, cut off supplies, and reduce that city by famine. He penetrated into Champagne, was obliged, after the engagement at Valmy, to conclude an armistice with Dumouriez. In 1798 he commanded the army of the Rhine, reappeared in 1806, after an interval of retirement, at the head of the Prussian army, commanded at Jena, and was mortally wounded at the battle of Auerstadt. He was thought to have aspired to the crown of France after the fall of Louis XVI.—Brunswick, Friedrich Wil-HELM, 4th son of the preceding, a Prussian general in the Napoleonic wars, born Oct. 9, 1771, perished in the battle of Quatre-Bras, June 16, 1815. At the head of a body of hussars, which he raised in Bohemia, he entered upon the campaign of 1809, was obliged by Reubel to retreat, and to take refuge with his army in England, where he was received with distinction, returned to his country in 1818, and took part in the battles of Ligny and Quatre-Bras.-BRUNSWICK, FRIEDRICH AUGUST WILHELM KARL, the eldest of the 2 surviving members of the eldest line of the Guelphs, son of the preceding, born at Brunswick, Oct. 80, 1804, succeeded his father, under tutelage, in 1815, took the government into his own hands, Oct. 80, 1828, was obliged by an insurrection, Sept. 1830, to seek safety in flight, was declared incapable of governing, and from that time has lived alternately in Paris and London.—Brunswick, Au-GUST LUDWIG WILHELM MAXIMILIAN FRIEDRICH, younger brother of the preceding, the reigning duke, born April 25, 1806, succeeded to the duchy after the expulsion of his brother in 1830, rebuilt, in 1833, the castle of Brunswick, which had recently been burned, and founded in 1884 the order of Henry the Lion. As this prince is unmarried, the duchy of Brunswick, at his death, will be reunited to Hanover.

BRUNSWICK GREEN, a compound of

chloride and oxide of copper and water, pre-

pared by oxidizing metallic copper in the air, by sprinkling it with a mixture of sulphate of copper, common salt, and water. It is also generated by the corrosion of copper in seawater. Its composition, as given by Berzelius, is 1 equivalent of the chloride and 8 equivalents of the oxide of copper. An artificial bicarbonate of copper, or mountain green, is also sometimes called Brunswick green. They are both

used as pigments.

BRUNTON, MARY BALFOUR, an English novelist, born in the island of Barra, Nov. 1, 1778, died in Edinburgh, Dec. 19, 1818. At the age of 20, she married the Rev. Alexander Brunton, a minister of the Scottish church, and subsequently professor of oriental languages in the university of Edinburgh. She published a novel, "Self-Control," in 1801, which obtained immediate popularity from its moral tone, as well as its literary merits. This was followed by "Discipline," in which the same moral purpose is kept in view. Some months after her death, her husband published a volume of her "Remains," containing "Emmeline," a fragment in 100 pages, with a few shorter sketches, prefaced by a memoir of her life, with extracts from her correspondence. This fragment is written with · great power, but so revolting is the subject, and so painful would have been the task of completing the story, that many critics have doubted whether she could have carrried it to the close.

BRUSASORCI (Domenico Riccio), a Venetian painter, born at Verona in 1494, died in 1567. He painted principally in fresco, and chose mythological subjects. At Verona he painted his celebrated "Coronation of Charles V." and the "Procession," in which appear the portraits of the emperor, Pope Clement VII., and other distinguished personages of the time. He also painted "Phaeton," in the ducal palace at Verona, and the "Martyrdom of St. Bar-

bara."

BRUSH, a common name for a variety of implements, employed, some for removing dirt, some for smoothing and polishing surfaces of objects by rubbing, and some for laying on colors. They are usually made by inserting the bristles or hairs of animals in a firm support, which holds them in their proper arrangement, and at the same time serves as a handle. The great proportion of brushes, as nearly all the various kinds used for house purposes, including house painters' and whitewashers' brushes, and those employed about the person and clothing, as hair, tooth, clothes, shoebrushes, &c., are manufactured of the bristles of the hog. They cause so large a demand, that bristles have become an important article of commerce. The great hog markets of the western states furnish the brush manufacturers of this country. England is supplied from Russia, the bristles from the Ukraine being preferred as superior to others. They are also imported from France, Germany, and Prussia. Previous to March, 1845, when the duty was repealed, the annual importations amounted to about

1,800,000 lbs., of which all but about 800,000 lbs. were from Russia. After this time they immediately exceeded 2,400,000 lbs.—The first process of the brush manufacturer is to sort the bristles according to their colors, unless he obtains them thus assorted. The divisions are into black, gray, yellow, white, and lilies. The last are the purest white, and are preferred for tooth and shaving brushes. Each kind is then assorted according to size, which is done by passing a bunch of them, held in the hand, between a row of steel points, like the teeth of a comb, which catch the coarser bristles. By using a succession of these combs of increasing fineness, the bristles are separated into as many heaps as desirable. Care is taken to keep them always arranged uniformly, the large or small ends of all pointing the same way. The cylindrical brush used by house painters is made by taking a bundle of bristles, and tying them firmly around their root ends. This bundle is then strongly bound between 2 prongs of a forked stick, and covered with a coating of glue and red lead. Another and more common method is to arrange the bristles around the small end of a conical stick, the small ends of the bristles pointing to the larger end of the stick. These being well secured by twine wrapping, and placed in a cup or socket with a hole in the bottom to let the handle pass through, this is driven home till the large end is buried in the centre of the bundle, tightening the fastenings and thoroughly securing the bristles. The delicate brushes, called also hair pencils, used for water-colors, are made of the hair of the camel, goat, badger, sable, squirrel, &c., by binding a bundle of them together after being carefully arranged, and their points temporarily protected, and sliding this through the larger end of a quill, till the points project sufficiently far through the smaller end. The tube, having far through the smaller end. been previously softened by water, contracts as it dries, and holds the bundle of hairs fast. best brushes of this kind are made of the hair taken from the tail of the kolinkski, a Russian sable.—Brushes, except those used for painting, are made for the most part by inserting little tufts of bristles into holes bored in rows into a stock of wood, bone, or ivory. The bristles are in some kinds secured by dipping their root ends into hot pitch, winding a piece of string round these ends, then dipping them again, and quickly introducing them with a twisting motion into the holes, where the pitch soon sets and holds them. The small ends of the bristles may be trimmed, and the stiffness be thus somewhat increased; but all such brushes are much softer and more flexible than those made by taking that portion of the bristle near the root end, and doubling it, so that it presents at one end a loop for securing it, and at the other 2 stiff points. For these the stock or board is sometimes prepared by boring the holes not quite through of the full size, but finishing them with a small bit. Each hole is correctly made in its proper place by a scale or pattern board,

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number of eggs deposited in a single heap is often very great. As many as a bushel are frequently taken from one of these collections, at a single time. From experiments that have been made in heaps collected by birds partially domesticated, the heat of their centre has been ascertained to range as high as 95° F. The leipoa ocellata, another of this interesting group, de-posits her eggs in mounds of sand alternating with layers of dried leaves and grasses. The eggs, as they are laid, are carefully covered up, but the parent birds never sit upon them. The rays of the sun, adding to the heat engendered by vegetable decomposition, supply the requisite means. According to Gray, this species deposit about 12 eggs each. These are separated by vegetable matter or by earth, and the whole, soon after they are laid, are covered up by a large heap of sand, scratched up by the pair and forming a mound 9 feet in diameter and 3 in height. The megapodius tumulus employs yet another, though analogous manner of hatching her eggs. This species construct large mounds of earth for the development of their ova. Well-authenticated accounts describe these mounds as often of an immense size, varying from those of 20 feet in circumference and 5 in height, to those of a diameter of 20 feet and a height of 15. In these the eggs are carefully covered up by the parent birds, and buried often to the depth of 6 feet. Other species of this family are found in nearly all the islands of the eastern archipelagoes of Asia. Some of these merely deposit their eggs, in large numbers, in holes excavated on the sea-shore, to the depth of 2 or 8 feet. Nearly all the family, however, are more unequivocally mound-builders.

BRUSSELS (Flemish Brussel, Fr. Bruz-elles), the capital of Belgium, situated on the little river Senne. Lat. 50° 51′ N., long. 4° 22' E. Pop. in 1857, including the suburbs, 166,801, showing an increase of about 16,-000 over the preceding year, owing to the annexation of the fashionable and stately quartier Léopold. In the new town there are the royal palaces and the mansions of the nobility, the park, public promenades (the Alles sorts being the most popular), the chambers of the legislative bodies, and the libraries and museums occupying the former residence of the Austrian viceroys; while in the old town there are the churches of the 14th and 15th centuries, with their superboak carvings, stained glass windows and statues, the hotel de ville, and the mansions of the former nobles and burghers of Brabent. The principal church is that of St. Gudule, an immense and ancient building in Gothic style, with 2 very lofty towers. The choir and transepts, as at present existing, were finished in 1278, the nave in the 14th century, and the towers in 1518. Its windows are filled with the richest stained glass in the Netherlands, and it contains a number of costly monuments of the dukes of Brabant. The high altar in this church is so arranged that by some ingenious machinery within, the sacred wafer descends apparently of itself, at

the moment when the priest is about to elevate the host. The pulpit is one of those wonderful specimens of Flemish oak carving. Another most interesting monument of the middle age is the *kôtel de ville* in the grande place, a vest structure commenced in 1401. Its tower, of Gothic open work, rises to the height of 864 & and is crowned by a vane representing the figure of St. Michael, in gilded copper, 17 feet high. It is frequently stated, but erroneously, that the abdication of Charles V. took place in this edifice. The real scene of that strange pageant was the old ducal palace, burnt down in 1738, and which stood on the site of the place royale in another part of Brussels. The appearance of the ancient square, on one side of which is the hotel de ville, and the others surrounded with the old Spanish buildings and the Broodhuis or maison du roi, is much the same as in the days of the duke of Alva. In this Broodhuis, Counts Egmont and Horn passed the last night prior to their execution, and from a window of the same building Alva looked upon the bloody spectacle. The square of the hotel de vills has been the scene of nearly every popular commotion that has agitated Brabant. Within the present century it has swarmed with soldiers; as in 1815, when Wellington marched from Brussels to Waterloo, and 15 years later, during the revolution which resulted in the independence of Belgium. In the place du petiteablon the Protestant confederates assembled to draw up their remonstrance to Margaret of Parma, regent of the Netherlands, and half sister to Philip II. The palais des beaux arts, formerly the regal residence of the Austrian governors. contains a very large collection of paintings, few of which, however, are remarkable; a palsis d'industrie, or museum of models of machinery and inventions in the mechanic arts; and a noble library founded by the dukes of Burgundy in the 14th century, and enriched by successive sovereigns, which now contains 200,000 printed volumes, and 18,000 MSS., many of the latter superbly illuminated. A museum of antiquities attached to the building contains numerous curiosities. The private palace of the duke d'Aremberg is widely known for its exquisite pictures. library, objects of vertu, and a head supposed on the best authority to be the original of that of the central figure in the group of the Laccoon. The head in the Vatican, at one time in Paris, is a restoration, and for the one in possession of the duke d'Aremberg Napoleon offered weight for weight, gold for marble. The palace of the prince of Orange, formerly considered the richest residence in Europe, has of late years been dismantled, and its contents removed to the Hague. The picture gallery of the prince de Ligne abounds with remarkable pictures. The galerie St. Hubert, a splendid bazaar, extending from the marché aux herbes to the rue de l'évêque, was completed in 1847. An observatory was built in 1828. The academy of science and the conservatoirs de musique, and other institutions of learning and art, are in a flourishing condition. There is a corBRUTUS 27

de artistique et littéraire, where lectures are delivered during the winter season; a grand harmonic, a philhermonie, and a concert noble. There are 6 public schools, 6 schools for poor children, and an equal number of institutions of learning apported by private means and by religious as-sociations. The most extensive of the many charitable institutions is the hopital St. Ille, with 600 beds. Brussels is the seat of the société giairele, a bank which had charge of the pubis finances until May 5, 1850, when the banque nationals was founded. There are several other important banking establishments. In the stock exchange of Brussels a large amount of speculative business in foreign and national stocks. and railway and industrial shares, is carried ca. Catil 1854, when the reprinting of French works was stopped by law, Brussels derived sesiderable importance from this branch of the book trade. The book trade of Brussels, howover, is still one of the most flourishing branches detivity of the town, Belgium continuing to le the largest importer of French books. complete system of railroads connects Brus-sk with all parts of the kingdom. Manufactories of a great number of commodities are carried on here. Brussels lace is still celebrased, although this branch of industry has declined considerably. It excels most in the manufacture of looking-glasses and other objects made of glass and crystal, in the fabrication of carpets, and, above all, in that of carrisgs. The breweries of Brussels are noted for r successful imitation of Bavarian, English, and Scotch beer, and for a sort of beer called for and another sort of white beer called biers is losses. The theatre on the place de is usuasis was destroyed by fire Jan. 21, 1886, and rebuilt in 1856. There is a théatre de neurosulés on the boulevard de Lacken, and a titire de caudeville, rue de l'évêque, chiefly fer Flowish plays. There are also a Vauxhall, a beautiful botanical garden, a smaller theatre is the park, a circus, and a large number of splen-id coffee-houses. English church service is perfermed in 2 chapels, and the bookseller Muguardt, is the place royals, has a reading room for legist and foreign newspapers, and an English creating library. The concourse of strangers indresidents of all nations is daily increasing, and contributes not a little to the prosperity of the Began capital. French is the conventional langange of politic society in Brussels; but the means of the people, and even many educated person, reads the use of the Flemish and Walloon languages. The principal Belgian journals are issued at Brunsels, the Independance Belge being the best known abroad. A journal in the Russian interest, Le Nord, is also published here. The place des martyrs contains a mon-ment erected on the grave of about 800 victims of the revolution of 1880. Margaret of Austria vm born in Brussels, as was Vesalius, the anatomist, to whom a statue has been erected in the Noce da barricades.

BRUTUS, DECIMUS JUNIUS, a Roman soldier,

executed 48 B. C. He served under Cæsar in the Gallic war, and in the civil war he commanded the fleet destined to besiege Massilia. Cæsar afterward appointed him to the government of further Gaul. Nevertheless he joined the conspiracy against Oæsar, and volunteered on the memorable ides of March to conduct his friend and benefactor to the place of slaughter. When the tragedy was consummated, Decimus Brutus retired to Cisalpine Gaul, and thero maintained himself for some time, but was ultimately deserted by his troops, betrayed to Antony, and put to death by order of that

general. BRUTUS, LUCIUS JUNIUS, sometimes called the Elder, to distinguish him from Marcus Junius, the slayer of Casar, lived about 500 B. C. According to the legend, he was the son of Marcus Junius and of the sister of Tarquin the Proud, the last king of Rome, and is represented as having saved his life from the cruelty of that prince by feigning idiocy, whence he received the surname of Brutus. Yet we find him not only described as not persecuted, but trusted and favored by the king, who associated him with his own sons, Aruns and Titus, in a mission which he sent to Delphi to inquire into the meaning of a portent, which had caused much alarm at Rome. After receiving the reply to the question they were charged to propound, the young men thought it prudent to do a little vaticination on their own account, and inquired of the oracle which of the 8 should be king in Rome, no one of them being, it is observable, heir to that dignity. To this the voice replied, from the sanctuary: "Whichever shall first kiss his mother." So, on their return to Italy, Titus and Aruns ran emulously to the palace, seeking who first should embrace the queen mother; but Lucius Junius, as he landed from the galley, affected to stumble from the gang-plank, and falling prostrate, kissed the soil of Rome, and arose up satisfied that he had penetrated the meaning of the oracle, and had secured to himself the succession to the throne. Shortly afterward followed the rape of Lucretia, the wife of his cousin Tarquinius Collatinus, by Sextus, and the self-immolation of the injured lady, in the presence of her father, who brought with him Publius Valerius, and of her husband, with whom came Lucius Junius. swore to avenge her wrongs, but Brutus drew the reeking weapon from the wound, and holding it on high, vowed to visit the deed upon King Tarquinius, and upon all his race, and to take rule that no man hereafter should be king in Rome. First the people of Collatia, where the deed was done, and then, when they heard of it, those of Rome in their curia, and lastly the army, which lay before Ardea, ratified the deed; and the Tarquins, being expelled by universal consent, fied to Gabii and Ozere. The people met in their centuries, to elect 2 men who should govern the city in lieu of kings, whose tenure of office should be annual, and whom they called consuls; and they chose

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Lucius Junius and Lucius Tarquinius of Collatia, thence called Collatinus, to be the consuls of the first year. But, shortly afterward, on reflecting that the second magistrate was still a Tarquin, the people took alarm, and requested him to abdicate his office, and withdraw from their city in all honor, that they might be liberated from their apprehensions, and no longer have a Tarquin ruling over them. He did so, and they elected Publius Valerius to be consul in his room, who received the name of Poplicola, from his popularity. But, after all seemed settled, some of the young men of Rome, of noble birth, regretting their ancient government, and averse to the republican simplicity which had supplanted the royal usages, conspired to bring back the Tarquins, and to reestablish royalty in Rome; and the sons of Lucius Junius, Titus, and Tiberius, were among the conspirators. The plot was discovered by a slave, and Lucius Junius sat in judgment on his own sons, and did not hesitate to do justice on them, but caused them to be scourged with rods, in accordance with the law, and then beheaded by his lictors, in the forum; and he neither turned aside his eyes, nor shed any tear over them; for they had been false to their country, and offended against the law; and "a man," he said, "may have many more children, but never can have but one country, even that which gave him birth." When the conspiracy was discovered, and so proved of no avail, for bringing back the Tarquins, that proud and daring family determined to return by force; and, with the favor of Porsena, king of the Etruscans, and Mamilius, prince of the Latins, and the vassals of their own family from Care, and Agylla, and Tarquinii, they raised a great army, and invaded the Roman territories. It so chanced that Aruns, son of Tarquin, and Lucius Junius, the consul, encountered in advance of the main bodies of the army, at the head of detachments of horse, and riding at each other with levelled lances, transfixed each other, and both fell down dead. Then the cavalry met, and fought flercely; but it was a drawn battle, and neither party had clearly prevailed in the fight, and both encamped on the ground face to face. During the night there came a great voice, greater than human, out of a wood hard by, making proclamation that "one man more had fallen on the part of the Etruscans than on that of the Romans, and that, therefore, the latter would come off victorious in the war." When the Etruscans heard the voice, they were afraid, and struck their tents, and marched home, leaving the Romans to enjoy the independence they had won, and to bury their dead consul with great honor. This is the legend of Lucius Junius, whom the Romans called Brutus, and whose posterity bore the name, given in the first place as a term of obloquy, esteeming it thenceforth as an ornament and a grace.—There has been much doubt and dispute as to the reality of the events related in the above legend. It may, however, be taken

as certain that "Brutus and Poplicola," to bor row the words of Dr. Arnold, "were, no does real characters, yet fiction has been so bus with their actions, that history cannot ven to admit them within her proper domain." is shown distinctly by Niebuhr. tion found in Polybius, made by mun brazen tables in the capitol, preservous archives of the ediles, of a treaty with thage of commerce and navigation, ra the first year of the commonwealth in t sulship of Brutus and Collatinus, that were recorded in that treaty. and was made Rome was in p n of su Latin country, and all the cos from G beyond Terracina, probably ug the 1 shore-line of Campania to the confines of I and also that she traded largely with Sardinia, and the Libyan coast, to the we ward of the Beautiful cape or Hermoan pr tory, now Cape Bon; the treaty being en into with a view to the preservation of rights and privileges of 2 already and maritime nations. Notwithstanding conquest, Gallic invasion, and consequ struction of monuments, registers, and an the preservation of this one treaty is fixes the fact of the abolition of a hi and the establishment of a cons-ALUTTE government in Rome at this daw; identity and authenticity of Brutus anu tinus; sets aside, as worthless, the store. Rome being merely a small, rude town, cupied by agriculturists and half-b diers, and proves her to have been large, wealthy, flourishing community. regular navigation, regular commerce, government at once sufficiently well ea ed and foresighted to frame regulations with foreign powers for the increase of mercial facilities, and sufficiently powerful well known abroad to treat on equal term with great powers beyond the sea.

BRUTUS, MAROUS JUNIUS, the tyrani the son of that Marcus Junius Brutus w Pompey caused to be murdered, and of Serva the half sister of Cato, was born in autumn of 85 B. C., died 42 B. C. He le father when he was only 8 years old, but mother and uncles conducted his education w the utmost care. On the outbreak of the cavi war, he followed the example of Cato, joined the Pompeians, notwithstanding aversion to their leader. In the ment near Dyrrhachium, he very muctinguished himself, but after the defe his party at Pharsalia, he made his peace v Cæsar, and returned to Rome. On the tenation of the Alexandrine war, Cæsar appoin him to the government of Cisalpine Gaul. 44 B. C., he caused him to be made pre banus, and promised him the corprovince of Macedonia. But an a th honors, all the marks of friendship and which the dictator had, or might have, I ed on him, could not hold Brutus to

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18 years, when he was dismissed, not being sufficiently economical in the management of the church accounts; he was also careless with regard to those whom he admitted to the church.

BRYANT, WILLIAM CULLER, an American poet, born Nov. 8, 1794, at Cummington, Hampshire co., Mass. His father, Peter Bryant, was a distinguished local physician, who had also travelled considerably, and devoted much time to the culture of his mind. He took unusual interest in the intellectual and moral development of his children, and was rewarded in the case of all of them, and particularly in that of William, with early evidence of their proficiency. The poet, in his beautiful hymn to death, alludes feelingly to this parent in the lines beginning:

For he is in his grave, who taught my youth The art of verse, and in the bud of life Offered me to the muses;

which was no poetic exaggeration, but a literal truth. There are few instances of precocity more remarkable than that of Bryant. He communicated lines to the county gazette before he was 10 years of age, and in his 14th year his friends caused to be printed 2 considerable poems, the "Embargo," a political satire, and the "Spanish Revolution." These passed to a 2d edition the next year (1809), and such were their merits that, in the preface to that edition, it was found necessary to certify the production of them by a person so young, in order to re-move the scepticism of the public. In his 19th year he wrote Thanatopsis, which still holds its place, in general estimation, as one of the most impressive poems in the language. He had in 1810 entered Williams college, where he was soon distinguished for his attainments in language and in polite literature. At the end of 2 years he took an honorable dismission, and engaged in the study of the law, at first with Judge Howe, in Worthington, Mass., and afterward with William Baylies, in Bridgewater. Admitted to the bar in 1815, he commenced practice in Plainfield, and afterward removed to Great Barrington. He speedily rose to a high rank in the local and state courts; but his tastes inclined him rather to letters than to law. 1817 his poem "Thanatopsis" was published in the "North American Review," and introduced him to the acquaintance of Mr. Richard H. Dana who was one of the club which then conducted the "Review." He contributed also several proce articles to that periodical. In 1821 he delivered before the Phi Beta Kappa society, at Harvard college, a didactic poem on the "Ages," and in that year several of his poems were collected in a volume at Cambridge, and obtained for him immediate recognition as a writer of the highest merit. He removed to the city of New York in 1825, and was en-gaged as an editor of the "New York Review," soon after merged in the "United States Review," to which he contributed several criticisms and poems, which increased his reputation. For these periodicals be received many

articles from his friends Dana and In 1826 he connected himself w "Evening Post" newspaper, under torial control of William Coleman. time it was inclined to what was federalism, and Mr. Bryant, whose were toward republicanism, so it more and more a republi d When he acquired an exclusive contri columns, a few years later, he rendered edly "democratic," taking ground of favor of freedom of trade, and against tial or class legislation. From 1827 to 1 Bryant was associated with Robert (and Gulian C. Verplanck in the of the "Talisman," a highly success and he contributed about the the tales of "Medfield" and the -- DI Cave" to a book entitled "Tales of the Spa." In 1832 a complete edition of hi was published in New York, and a co reaching Washington Irving, then in I he caused an edition to be printed th a landatory preface. It was most go reviewed by John Wilson, in "Bla Magazine," and from that time Mr. reputation in England, and on the conti Europe, has stood as high as it does in country. Having associated William with himself, in the management of the ing Post," he sailed with his family to E the spring of 1884. He travelled ext through France, Italy, and Germany, for months together at the principal and enlarging his knowledge of the la and literatures of the lead poems bear witness to his Spanish, Italian, German, and El guages, which he has continued to After returning to his native country, suming his professional labors for som Mr. Bryant went again to Europe in 1 1845. In 1849 he made a third visit, tended his voyage into Egypt and Syri desultory letters written to his journ these wanderings were published in a la ed "Letters of a Traveller," soon after return. But in the intervals of these journeys he had by no means neglected country, and the same volume contains or of his sojourn in nearly all parts of the States, from Maine to Florida, and of a to the island of Cuba. Mr. Bryant's nature is so pervading, and his habits at that he has scarcely allowed a year without accomplishing a visit to some remarkable for its natural beauty or gr An inveterate pedestrian, also, he is alw lighted when he is able to make these v foot, and under circumstances in which control his movements, without regard exigencies of steamboats and railroads. the year 1845 Mr. Bryant purchased "an c mansion," embowered in vines and i near the beautiful village of Roslyn, island, where he has since resided,

ly employing his leisure hours in the garden d the field. His love of art, at the same time, has been cherished by an intimate association with the more eminent artists of the county. In 1848 Mr. Bryant was called upon to deliver a funeral oration on Thomas Cole, his persmal friend, and among the foremost of American hadscape painters. Again, in 1852, on the nice of the commemoration held in honor of the genius and worth of the late James Fenimore Cooper, and in view to the erection of a promises to that celebrated novelist in the city of New York, he was appointed to pronounce discusse on his life and writings. various writings in proce, it has been said that they costain. "no superfinous word, no empty or how phrase," but are marked throughout by "pen, manly, straightforward, and vigorous lagish." His poems are characterized by extens purity and elegance in the choice of sords, a compact and vigorous yet graceful extens, great delicacy of fancy, great dignity and section of thought, and a genial yet profoundresisma and religious philosophy. As a misee and sympathetic observer of nature, he is almost without a rival.—In person, Mr. Bryant isseeds but symmetrical, with a large and wellfermed head, and a peculiarly firm and erect estringe. His manners are reserved and simple, even to shyness; yet he does not avoid, while he does not court society; and to a rare amia-hity he adds a thorough integrity of character. Mr. Bryant made another journey to Europe in and 1858, and has given graphic descriptions of the countries through which be passed, its series of letters addressed to the "Evening ht." He was received with great distinction. is the literary circles of Madrid, and an interesting account of his visit there was published is the Spanish newspapers.

REVAXIS, an Athenian statuary, who flour-

ind in the 4th century B. C. He cast a statue is broase of Seleucus, king of Syria, and assist-d is adorning the manacleum with beas-reliefs. He also executed 5 gigantic statues at Rhodes, a tates of Pasiphase, and other works. According to Clemens Alexandrinus, 2 of his statues were attributed by some to the celebrated

BRYDGES, SER SAMUEL EGERTON, an English ther, been at Wootton court, in Kent, 1762, that at Geneva, Sept. 8, 1837. He was edu-ted at Cambridge. In 1790, after the death of the last duke of Chandos, he induced his eller brother, the Rev. E. T. Brydges, to prefor a claim to the ancient barony of Chandos, as a descendent from Anthony Brydges, 3d son of the 1st Lord Chandos. This claim was for many years before the house of lords, who hally decided against its validity in 1808. The claimant died in 1807, and Mr. Egerton hydges, who succeeded him, insisted, with great pertinacity, that, though defeated in par-iment, he could, when he pleased, assert his take by common law. Thenceforth, he usu-aly sided to his signature the words, "Per

legem terrse, Chandos of Tudeley." He now possessed considerable landed property in Kent, and made several unsuccessful attempts to obtain a seat in parliament, and was eventually elected for the borough of Maidstone, for which he sat from 1812 to 1818. He rarely spoke, and generally voted with the tories. He specially directed his efforts to effect those changes in the poor laws and copyright act, which were made many years later. In 1815 he was created a baronet. On losing his seat in parliament, he visited many parts of the continent, returning to England in 1826, and remaining for 2 years; but his affairs becoming inextricably embarrassed, he removed to Geneva, and remained in great seclusion until his death. The failure of his attempt to obtain a seat in the house of lords threw a gloom over his life, and from the querulous tone of his writings Prof. Wilson pronounced him to be head of the moping school of modern authors. His literary labors were varied and unceasing, including romance, poetry, criticism, politics, biography, genealogical antiquities, topography, and classical literature. The novel, "Mary de Clifford," is the best of his fictions. His "Recollections of Foreign Travel, on Life, Literature and Salf Knowledge," is full of informations of the content of th ture, and Self-Knowledge," is full of information, and there is much of value in his "Autobiography," containing anecdotes of his times, and the literary and political personages with whom he was long associated. Another curious work is his "Imaginary Biography." He also produced "Letters on the Character and Po-etical Genius of Lord Byron." Shortly before his death, he stated, in "Fraser's Magazine," that he had written over 14,000 sonnets. He edited Milton's poetical works, appending an excellent memoir. His abilities as a genealogist, topographer, and bibliographer, are attested by his Consura Literaria (10 vols.), Restituta (4 vols.), Theatrum Poetarum, Stemmata Illustria, Lex Torra, and "British Bibliographer." He also edited a "British Peerage," crowded with various information, heraldic, genealogical, and personal.

BRYDONE, PATRICK, a Scottish traveller, born in 1741, died June 19, 1818. He commenced his travels for the purpose of making "discoveries as to the precise state and tem-perature of the air on the summits of the high-est mountains in Europe." He passed through France, to the Alps and Apennines, made a tour through Sicily and Malta (1768), and after visiting the principal islands in the Mediterranean, returned to England in 1771, where he published an "Account of Travels," among the most striking passages of which are his account of the bursting of a thunder-storm under his feet on the Alps, and some curious remarks on the state of the atmosphere on the summit of Mount Etna. He considered electricity to influence many of the phenomena of nature and to be "a 5th element, distinct from, and superior to, the other four." BRYENNIUS, MANUEL, a Greek writer on

music, who flourished between A. D. 1282 and Dr. Wallis translated his works in 1680.

BRYNHILDA, a mystic personage, in the Scandinavian legends, variously represented as connected with Attila, Sigurd, and Gurnar, or Gunther, and playing the principal part in the series of extraordinary adventures attributed

to those persons.

BRYONIA, or BRYONINE, a poisonous extract of bitter taste, prepared from the root of the bryonia alba and dioica, by the process for bitter extracts. It is of a yellowish brown color, soluble in water and alcohol, but not in ether. The plant bryonia (Gr. $\beta\rho\nu\omega$, to grow rapidly) is a wild creeper, with twisting tendrils and scarlet berries of a disagreeable odor. It is met with in different parts of Europe, where it is employed as a purgative medicine, and its ber-Its root, when bruised and apries in dyeing. plied to the skin, is so highly irritant as to produce blisters. Over-doses of the extract have proved fatal by its poisonous qualities.
BRZESO LITEWSKI, or BREST LITOWSKY, a

fortified town in the western part of Russia, government of Grodno, on the right bank of the river Bug, about 110 miles south of Grodno. It was formerly the capital of a Lithuanian palatinate, and contains an old castle, a high school, 3 churches, and a synagogue, and has a considerable transit trade. In 1794 Suwaroff gained here a victory over the Poles. Pop. 18,100; pop. of the district, 100,450.

BUA, a small island in the Adriatic, belonging to the Dalmatian district of Spalatro, is connected with the town of Trau by a bridge; pop. about 4,000. During the latter period of the Roman empire many political offenders and heretics were confined here. It contains 6 villages, of which Santa Croce, or Bua, is the principal; pop. about 1,400. The productions of the island comprise dates, wine, olives, and particularly asphaltum, of which there is a remarkable well.

BUACHE, PHILIPPE, a French geographer, born in Paris, Feb. 7, 1700, died Jan. 24, 1778. He spent 7 years in arranging a new repository of maps and charts. In 1729 he became chief geographer to the king, and in the following year a member of the academy of sciences, in which he had been the means of instituting a professorship of geography. His notions of geography were in some respects peculiar. He asserted that there was a vast continent about the south pole, traversed by lofty mountains and gigantic rivers. The suggestion, that at Behring's straits a connection between Asia and America might be traced, came from him.

BUACHE DE LA NEUVILLE, JEAN NIOO-LAS, 8 nephew of the preceding, and also a geographer, born Feb. 15, 1741, died Nov. 21, 1825. He instructed the royal princes, afterward Louis XVI. and XVIII., and Charles X., in geography. After the death of D'Anville, he became first geographer to the king, and keeper of the marine charts and log-books, in which capacity he prepared the charts and plans with

which La Pérouse was provided for h of discovery. During the reign of was deprived of his office, but was I after the fall of Robespierre.

BUBASTIS, or BUBASTUS, a city of Egypt, now in ruins; mentioned in the tament as Phi-Beseth, now known by Tel-Bustak; situated in the delta of S. W. of Tanis; was built in honor of dess Pasht, called by the Greeks Buba goddess was represented by the figure and many mummied cats have been for tombs of Bubastis. On the N. side or commenced the canal between the Nil Red sea, constructed by Pharaoh Neco. tis was taken by the Persians 852 B. (walls dismantled. Among the ruins of have been found remains of costly and cent temples. Here were celebrate feasts to the goddess Pasht, attended 1 from all parts of Egypt, even to the n 700,000 at one time, as is stated by H

BUBBLE, a film of liquid substance into a globular form, by the gas or which it is filled. Bubbles rise natu burst upon the surface of waters, by ti of carburetted hydrogen or other ga the mud at the bottom. When blown ture of soap and water, the film has adherence to rise in the air, and thus bles form small balloons, particularly with hydrogen gas. Filled with a m hydrogen and oxygen, they may be on the approach of a candle with a re

that of a pistol.

BUBNA UND LITTIZ, FERDINAL an Austrian general, born at Zamersk, Nov. 26, 1768, died in Milan, June His poverty forced him to join the in the age of 16 as a volunteer. After 1 of Belgrade he was made standard-b which position he rose to the dignity marshal. He was also charged with portant diplomatic negotiations. In put down an insurrection in the north

BUBONA, in Roman mythology, dess who presided over cows and oxer statues of this goddess were placed in t of stables, and her likeness was ofter

over the manger.

BUBULCUS, CAIUS JUNIUS, a R lived about 800 B. C. He received ship thrice; was appointed dictator and waged successfully the war

Æquians.

BUC, SIE GEORGE, an English antiq historian, born in Lincolnshire in t century, died in 1628. He wrote the Universitie of England," and the "Ar els;" and is spoken of by Camden as " of excellent learning." His history of III., in which he maintains that that was deformed neither in body nor mine tutes his principal claim to distinction. BUCCANEERS (Fr. boucanier, one v

the flesh of wild animals), a name ar

membered, was Henry Morgan, a Welshman. While L'Olonnais and De Vasco were wasting in debanchery their ill-gotten gains from Venezuela, he sailed from Jamaica in Dec. 1670, surprised and took Portobello, and then directed his operations against Panama. He at first went to the island of St. Catharine to procure some guides if possible, and here the governor of a strong fortress, who might have beaten him off, no sooner found out who he was than he concerted with him to surrender on easy terms, and after keeping up for some time the farce of a cannonade, the buccaneers entered the place, demolished the fortifications, and carried off an immense quantity of ammunition. They then steered toward the Chagres river and took a fort at its entrance, after a gallant resistance from its commander, who was killed. Then leaving some of his vessels, Morgan sailed with sloops up the river 38 miles, to Cruces, and thence proceeded by land to Panama. He defeated some troops sent out to meet him, and then entered the city, where he found a prodigious booty, with which the buccaneers departed, after firing the place and carrying off a large number of prisoners.—In 1683 an expedition was planned by Van Horn, a native of Ostend, who had served among the French for the greater part of his lifetime; he owned a frigate, and joining a number of other ruffians as desperate as himself, with 6 vessels and 1,200 men, he sailed for Vera Cruz, and under cover of darkness landed, surprised the fort and barracks, and surrounded the churches whither the citizens had fled in terror for safety. The pirates then pillaged the city, and after they had secured every thing of value they proposed to the citizens to ransom their lives for about \$2,000,000. This proposal was at once accepted, and half of the money paid down forth with, when the buccaneers became alarmed at the approach of troops as well as a fleet of 17 Spanish vessels, and made off, carrying with them 1,500 slaves, and sailing through the enemy's line unmolested. About a year later all the buccaneers were seized with a sudden passion for plundering Peru. Up-ward of 4,000 men joined in this movement, some sailing by way of the straits of Magellan, and others crossing the isthmus. Many cities along the coast were pillaged, and the inhabitants massacred; silver was so common that the buccaneers would not receive it in ransom, and would accept nothing but gold, pearls, or jewels.-While these events took place in the southern sees, an adventurer of the name of Grammont, a gentleman of good birth and education, and distinguished as a military man, but obliged to join the outlaws from his excesses with wine, women, and play, made a demonstration in 1685 against Campeachy. He landed with his party without opposition, but meeting 800 Spaniards outside of the town he defeated them, and the combatants all entered the place to-gether. The buccaneers then turned the guns of the city against the citadel, but as these did little harm, they were preparing some plan to

surprise it when news was brought that been abandoned. Only one man re faithful to his duty, refusing to quit] and Grammont was so pleased with his that he secured to him all his effects rewarding him handsomely. After t marauders spent upward of 2 months a peachy, and rifled the country of ever valuable for 15 leagues around; proposin their treasures were embarked that the or, who was still in the field with ! should ransom the city. On his refusi so, they burnt it to the ground, and the ed to St. Domingo.—In 1697 a squadr ships, under the command of a bucc Pointis, with 1,200 men, sailed fr attack Carthagena. This was the g terprise that the buccaneers ever attempt they were perfectly successful: the taken, and the booty seized am ed ly \$8,000,000. The rapacious cu aged to secure for himself nearly immense sum, and the buccaneers eass with this treatment returned to Carthage there again secured enough to repay tl their losses; but on sailing for Europ were attacked by a fleet of Dutch and ships, in alliance with Spain, and most oversels captured or sunk. This was ti considerable exploit of the buccaneers; most remarkable of their leaders drop one by one, none were found to suppl places, so that by degrees the organizati to pieces; and moreover, many of ther induced to accept civil and military a ments to draw them from the piracy governments had been unable to suppre

BUCCARI, a free royal Austrian town in the circle of Fiume in Croa 7,800. It is on an arm of the gulf of and has a good harbor. It formerly to the Zriny family, and upon the conspithe latter in 1671 it was seized by Austr

BUCOINUM (Lat. buccina, a trumpet nus of shells, the shape of many spe which is like that of a trumpet, while the of a trumpet may be produced by blowithem. Their characteristics is of plicated columella of thick given form, and a short canal at the base of the abruptly curved away from the out Some species of this shell are often ver and handsome, so that they are used as ornaments. Those commonly called the most beautiful shells of this family.

BUCCLEUGH, or BUCCLEUCH, an parish of Scotland, but now compreher the parish of Ettrick, Selkirkshire. I the title of duke to the head of the ancillustrious family of Scott. Buccleugh the name of a suburban parish of Edinbu

BUCELLAS, a village of Portugal, in madura, surrounded by an excellent growing district. It gives its name to a of white wine produced in its vicinity.

BUCENTAUR, the gilded galley in

86 BUCHAN

ical distribution of plants. Von Buch was the first to suggest the idea of the slow and gradual elevation of the land of Sweden above the level of the sea, from the region of Frederickshall as far as Abo. The results of these explorations were published in his "Travels in Norway and in Lapland," 2 vols. 8vo. Berlin, 1810. His explorations of the Alps, in Switzerland, and of the mountains in Germany, induced Von Buch to put forth the opinion that the highest chains of mountains have never been covered by the sea, but are the result of successive upheavings through fissures of the earth's crust, the parallel direction of which is indicated by the principal chains of mountains in the Alps. suggestion had already been made by Avicenna, or Ebn-Sina, a celebrated Arabian physician of the 11th century, and it has since been developed into a general theory by Elie de Beaumont. About this time, also, Von Buch published his views, which have since been confirmed by the labors of Noggerath, with regard to the formation of amygdaloid agates, or almond stones, in the porosities of melaphyre. In 1815 Von Buch went to the Canary islands, accompanied by Christian Smith, the Norwegian botanist, who perished in the unfortunate expedition of Capt. Tuckey at the mouth of the river Congo. The volcanic islands, with their gigantic peak of Teneriffe, became the basis of an elaborate series of investigations on the nature of volcanic activity, and the results produced by fire, which he published in his Physi-kalische Beschreibung der Canarischen Inseln (Berlin, 1825). He next visited the basaltic group of the Hebrides and the coasts of Ireland and Scotland. He continued his geological excursions and investigations, in fact, almost incessantly until the last day of his life. Eight months before he died he made another visit to the extinct volcanic regions of Auvergne in the south of France. His life was one continued round of observation, travel, and investigation. Being a bachelor, the ties of home did not obstruct his taste for travelling to any region of the globe where scientific curiosity attracted him. His journeys and his explorations were made mostly on foot; with a change of linen in his ample pockets and a geological hammer, he was equipped for any journey, and his own busy mind was all the company he needed in his travels. Such was the mode of life and the career of the man whom Alexander von Hum-

boldt deems "the greatest geologist of the age."
BUCHAN, DAVID, a British voyager and explorer, born in 1780. He obtained a lieutenant's commission in the navy in 1806, and in 1810 commanded in that capacity the schooner Adonis on the Newfoundland station. His admiral, Sir John Duckworth, despatched him to the river Exploits, for the purpose of exploring the interior and opening a communication with the natives. He reached the mouth of the river in January, 1811, and with 34 men and 3 guides penetrated through the greatest difficulties 130 miles into the country. Finding

at length a village of wigwams, he inhabitants, 75 in number, captive, and them so well as to induce 4 to acc to a place where he had deposited μ them. But so great was the hatreu by the cruelty of earlier travellers that on his return found the wigwams and 2 of his sailors, whom he had left ages, beheaded and horribly mutilat 1816, Buchan was promoted to the commander, and in 1818 was appointe command of an arctic expedition. The land whalers having reported the acremarkably clear of ice, the admiral out 2 expeditions that year—one to the north-west passage, the other to r north pole. The first was intrusted to (soon Sir John) Ross and Lieutenant (Edward) Parry, with the Isabella and der. It proved unsuccessful, and much faction was felt with its conduct. The I and Trent were the vessels selected other expedition, under Captain Buci Lieutenant (afterward Sir John) I Among the officers were se w since greatly distinguished the voyages. The 2 vessels, admirably with all the scientific equipments of voyage, sailed in April and reached of rendezvous, Magdalena bay, Spin about June 1. There they found in abundance, and immense glaciers f sides of which avalanches would fa now and then with the crack of a 1 clap. Before them rose that gigantic of ice which has hitherto frustrate effort to reach the north pole. attempted to penetrate it in vain. 7, they put to sea, and after seve to force a passage, were shut up for in a floe of ice within 8 miles of 1 with the water so shoal that they o the bottom. At length the field and bore to the south at the ra miles an hour. They reached the open took shelter in Fair Haven. finding that the ice was again driving ward, they emerged from their har sailed northward until the barrier of it upon them, reaching the latitude 80' which was the most northerly point They attempted in vain to drag the by ropes and ice-anchors, for the curi ried them 8 miles an hour to the sor The only result of the effort was t of several lives. Captain Buchan tl over toward the coast of Greenland, vessels encountered a heavy gale of which, with the constant shock from ice, so disabled the Dorothea that she foundering condition. Lieutenant] wished to try again with the Trent, wi much less damaged, but it was tho that both vessels should go h which they accordingly did, repairs as they could at]

Ang. 30 they put to sea, and on Oct. 22 grived at Deptford. In 1823, Buchan was promoted to the rank of captain, and com-manded for some time on board the Grass-hopper the Newfoundland station. Two years stervard, he became high sheriff of that colony, which post he held for several years. He then went on a new expedition into the northern seas, from which he never returned. His ship is supposed to have been burned at see, but nothing is known with certainty of the het. In 1839, the admiralty struck his name from the list of living captains. The bad success of his arctic expeditions has deprived Buches of the glory which his ability, perseversion, and courage deserve. He wrote no account of his voyage, but Captain Beechey, who served on board the Trent, has supplied the omission. Science is indebted to him for important observations upon marine under-currest, the variations of the magnetic needle, the temperature of the deep sea as compared with that of the surface, and the compression

of the globe at the poles.

BUCHAN, ELIZABETH (SIMPSON), the founder of a Scotch sect, now extinct, born near Banff, in 1738, died in 1791. She was educated in 1738, died in 1791. in the Scottish Episcopal church, but on her narriage to Robert Buchan, in Glasgow, became, like him, a burgher seceder. In 1779, or thereabout, she broached dogmas of her own, son deserted her husband and moved to Irvine, where she made a number of converts, smong them Mr. Hugh Whyte, a relief clergy-ma. In 1784, the people assaulted Mr. Whyte's loss, which the Buchanites had made their theracle. They then, 46 persons in all, set up a sort of community at a farm-house 18 miles from Dumfries, waiting for the millennium or the day of judgment, fasting for weeks in the expectation that they would be fed like the young ravens that cry, and abjuring all fleshly es. A few left, accusing Mrs. Buchan of tyranny and dishonesty, but the majority of her votaries were faithful to her to the last. She called her disciples around her death-bed and communicated to them, as a secret, that she was the virgin Mary, who had been wan-dering through the world since the Saviour's death, and that she was only going to sleep now, and would soon conduct them to the new levelen. Her disciples, in the expectation of her re-appearance, refused to bury her until

ordered by a justice of the peace.

BUCHAN, PETER, a Scotch antiquary, author of 2 volumes of "Ballads of the North of Scotland," and of kindred works, and celebrated for his enthusiasm for the legendary lore of his country, born in 1774, died in London, Sept. 3, 1854. He travelled over Scotland, collecting songs never before published, and thus brought a great number of Scotch ballads for

the first time before the public.

BUCHAN, WILLIAM, physician, born at Anorm, in Scotland, 1729, died in London, Feb. 25, 1805. After practising for a short

time in the north of England, where he distinguished himself by his successful treatment of the diseases of children, he removed to Edinburgh, where he graduated as M. D. There, in 1770, he published his "Domestic Medicine, of which, during his lifetime, 19 editions, each of 5,000, were published. It was translated into all the modern languages, has been constantly and largely reprinted in the United States, and obtained for the author, on its first success, a complimentary letter and gold

medal from the empress of Russia.

BUCHAN, BULLERS OF, in Aberdeenshire, Scotland, near the town of Peterhead, and Slains Castle, the seat of the earls of Erroll, are described by Sir Walter Scott (who visited it in July, 1814) as "a huge rocky caldron, into which the sea rushes through a natural arch of rock." He walked round the top, and adds: "In one place the path is only about 2 feet wide, and a monstrous precipice on either side. We then rowed into the caldron or buller from beneath, and saw nothing around us but a regular wall of black rock, and nothing above but the blue sky. In the side of the caldron opens a deep black cavern." This place was visited by Dr. Johnson and James Boswell in August, 1773. In describing it, Boswell says that the force of the tempest must have driven the sea through the rock. He adds: "We walked around this monstrous caldron. In some places the rock is very narrow, and on each side is a sea deep enough for a man-of-war to ride in, so that it is somewhat horrid to move along." The caves below were formerly used by smugglers. In a high gale, the sea rushes in with great force. An old fisherman told Scott that he had seen it flying over the natural wall of the buller, which cannot be less than 200 feet high.

BUCHANAN. I. A north-western county of Missouri; area about 415 sq. m. The Missouri river separates it from Kansas territory; it is intersected by the Little Platte river, and drained by Castile and Livingston creeks. The soil is fertile, and the productions in 1850 amounted to 121,682 bushels of wheat, 1,935,713 of Indian corn, 56,549 of oats, and 80,073 pounds of wool. There were 8 grist mills, 9 saw mills, 2 newspaper offices, 6 churches, and 625 pupils attending public schools. Capital, St. Joseph. Pop. in 1856, 15,813, of whom 1,798 were slaves. II. A north-eastern county of Iowa; area, 576 sq. m. It is intersected by Wap-sipinicon river and Buffalo creek, and is well sup-plied with timber and water. The productions in 1856 were 2,055 tons of hay, 45,121 bushels of wheat, 41,762 of oats, 184,699 of Indian corn, 27,949 of potatoes, and 58,199 lbs. of butter. Capital, Independence. Pop. in 1856, 5,125.

BUCHANAN, CLAUDIUS, D. D., chaplain of the East India company, born near Glasgow in 1766, died in Broxbourne, Eng., Feb. 9, 1815. In 1796 he was appointed chaplain of the East India company, and when the marquis Wellesley

founded a college at Fort William, he was nominated vice-provost and classical professor. He was the author of "Christian Researches," and other works, which had a great influence both in England and America in directing the attention of the religious public to the promotion of Christianity in India. He was employed in superintending an edition of the Syriac Testament at the time of his death.

BUCHANAN, GEORGE, a Scottish author of the 16th century, born in the beginning of Feb. 1506, died Sept. 28, 1582. He was sent to Paris about 1520 for his education, returned in about 2 years to Scotland, and in 1528 was engaged in a border foray and the storming of a castle in England. Two years later he took a degree at St. Andrew's, and in 1527 went again to Paris, where he remained connected with the university about 10 years. In 1537 he was again in Scotland, as tutor to one of the sons of King James, when he wrote some satirical poems directed against the monks and friars. The animosity of the church party, and especially of Cardinal Beaton, obliged him to flee, and he repaired successively to London, to Paris, to Bordeaux, and to Portugal. His occupation was probably that of teaching the rudiments of Latin in the universities, but he published 4 tragedies upon the classical model, and various odes and poems, by which his name became widely known. He returned to France in 1553, and in 1562 was at court in Scotland, and classical tutor to Queen Mary. As such he lived upon terms of apparent intimacy with her, and was made principal of St. Leonard's college, in 1566. He now openly declared himself a Protestant, and took the side of that party both in church and state, was a member and moderator of the assemblies of the church, and held some important secular offices. His Fratres Fraterrimi, another satire upon the friars, was published in 1564. In 1566, and again in 1567, he collected and published an edition of his poems. He was the author of the "Detection of Queen Mary's Actions," before the tribunal appointed to examine her at York, in 1568, which was extensively circulated in England, and used to blacken her fame. On this account he has been subjected by her friends to accusations of the darkest treachery. In 1570 he was intrusted with the education of James VI., then 4 years old. The year 1579 was marked by the publication of his De Jure Regni apud Scotos, a treatise, under the form of a dialogue, concerning the institutions of Scotland, upon the principles of government and society. For nearly 2 centuries this book, which inculcates the doctrine that governments exist for the sake of the governed, was held up as containing the sum of all heresy and rebellion. It has had the honor of many courtly refutations, and of being burnt, together with the works of Milton, in 1688, at Oxford, and again, in 1684, received a formal condemnation and burning from the Scotch parliament. His last production, the Rerum Scoticarum His-

toria, in 20 books, was published the year of his death, but he is now remed ed chiefly for his translation of the pa Latin verse. His mother tongue was me the Gaelic, but the celebrity of his wribeen to some extent due to the eltheir latinity.

BUCHANAN, James, 15th president United States, was born at a place called Batter, in Franklin co., Penn., April 22 His father, James Buchanan, emigrated United States from the county of D land, in the year 1783; his mother veet beth Spear, daughter of a respectable Adams co., Penn. The father commens as a hardy pioneer, but, by successful in soon acquired that competency which him to give his son a classical edu Buchanan graduated at Dickinson our liale, in 1809, with high honor. In Dowyear he commenced the study of the the office of James Hopkins, of Lancast was admitted to the bar Nov. 17, 1812 then little more than 21 years old. yer of not more than 4 years' not over 25 years of age, he fended, unaided by senior ca ы, ш (sion of 1816-'17 of the I BVIVADIA 🗪 distinguished judge, who ticles of impeachment. лів Р creased with his reputation, his propusitions accumulated, and his name oftener in the "Reports" of the state th of any other lawyer of his time; tl himself, at the age of 40, enabled to n the profession. Once only after his re could he be prevailed upon to reappear bar, and that was in an action of eie which involved the only little prop widow. The case was surrounded up technical difficulties, but Mr. Bucl ceeded in establishing the widow's on the age of 23 Mr. Buchanan became a 1 of the Pennsylvania legislature. In the of the war of 1812 between the United and England, the British had taken : stroyed the public buildings at Wasl This act caused a feeling of general indi throughout the country. At a public in Lancaster, Mr. Buchanan, though a fe made an appeal in favor of a vigorous I tion of the war, while he himself headed volunteers to march to the defence of Ba The company was commanded by Judge Shippen, Mr. Buchanan willingly tak position of private soldier. They mar Baltimore under the command of or Sterret Ridgeley, but their s ing required, they were th charged. In the legislatu W T elected in Oct. 1814, he supported ever ure of national defence. When Phils ure of national defence. was threatened, and the state of Penns was obliged to depend on her own re for the means of repelling the British Mr. Buchanan made the most urgent ap

the patriodism of the legislature to adopt effi-cient measures of relief. Being redlected to the legislature in 1815, he gave his ardent support to a bill, which was passed, appropriating the sum of \$300,000 as a loan to the United States, to pay the militia and volunteers of the state in the U.S. service. In 1820 Mr. Buchanan entered congress, and his first elaborate speech, delivered Jan. 11, 1822, on a deficiency in the military appropriation, was in support of federal sutherity, and in defence of Mr. Crawford, then secretary of the treasury. His speech on the bankrapt law, delivered March 12, took high constitutional ground. The law, as originally proposed embraced only the mercantile classes, but a amendment was proposed, which extended it to all citizens of the Union. Against this Mr. Buchanan entered his protest. "We are now called upon," said he, "to decide the fate d a measure of awful importance. The most dredful responsibility rests upon us. We are not now to determine merely whether a bankrunt law shall be extended to the trading classes of the community, but whether it shall embrace every citizen of the Union, and spread its demoralizing influence over the whole surface of sciety." Immediately after this speech the question was taken on the bill, and it was defeated by a vote of 99 noes to 72 ayes, a majority of the southern members voting against the bill. On the tariff question, which was subsequently discussed, Mr. Buchanan expressed the views which he has ever since entertained, to wit: that duties ought to be raised merely for revesse, though in the indirect operation of a tariff of duties, certain necessary domestic manufac-ters may be more benefited than others. "I confess," he said, when the debate had taken a sectional turn, "I never did expect to hear inmmatory speeches of this kind within these walk, which ought to be sacred to union. never did expect to hear the East counselling the South to resistance, that we might thus be deterred from prosecuting a measure of policy wged upon us by the necessities of the country. If I know myself, I am a politician neither of the East nor of the West, of the North nor of the South. I therefore shall forever avoid any expremions, the direct tendency of which must be to create sectional jealousies, sectional divisom, and, at length, disunion, that worst and less of all political calamities." At the next min of congress the tariff question came up * American system," a title bestowed on it by Mr. Clay; but Mr. Buchanan voted for it simply as revenue measure, imperiously demanded by the exhausted state of the treasury. During the election of president by the house of representatives in 1825, Mr. Buchanan insisted on its taking place in presence of the people, with the galleries of the house open to the pubis, and not in secret conclave, as was suggested by some of the members and senators. He was spoud to the mission to Panama, projected dadvocated with all the ardor and persuasive doposace of Mr. Clay. Mr. Buchanan, as early

as 1824, had his misgivings as to the ultimate fate of Mexico and the South American republics, and he cautioned congress and the people of the United States against entangling alli-The United States had ances with them. strongly protested against the island of Cuba falling into the hands of any European power but Spain, and Mr. Buchanan was equally opposed to its being seized either by Mexico or If either of them attempted to Colombia. revolutionize Cuba, the emancipation of the slaves and a servile war would be the consequence. He held that Cuba is of immense commercial importance to the United States; but that in a practical and strategetical point of view, it is of still greater consequence. It commands, from its geographical position, the entrance to the gulf of Mexico, so that any power in possession of it may, with a small naval force, blockade the mouth of the Mississippi, and thus effectually tie up one of the great The exarteries of our foreign commerce. ample of insurrection there might prove per-nicious to the tranquillity and peace of the southern states, and spread desolation and ruin over our own country.—He took an active part in the presidential election of 1828, and the majority of 50,000, which Pennsylvania gave for Gen. Jackson, furnishes proof of the efficiency of his support. He himself was at the same time reelected to congress, and during the following session placed at the head of the judiciary committee, which position had previously been occupied by Daniel Webster. It was during this session that articles of impeachment were passed against a judicial officer, James H. Peck, judge of the district court of the U.S. for Missouri, upon which he was subsequently tried before the senate. The case was briefly this: In Dec. 1825, Judge Peck decided against the claims of the widow and children of one Antoine Soulard to certain lands in the state of Missouri and the then territory of Arkansas. Luke E. Lawless, of St. Louis, had been one of the counsel for prosecuting the claim, and when the decision of the judge in regard to the matter was published, Mr. Lawless wrote an article for a newspaper in which he, in respectful language, enumerated the errors into which the judge had fallen. Upon this, Judge Peck had him summoned, and not only deprived him of the right to act in his profession, but actually committed him to prison. Mr. Lawless made complaint to the house of representatives, where his memorial was referred to the committee on the judiciary. The committee unanimously reported articles of impeachment against the judge, which were adopted by the house and presented to the senate, and upon which the latter body resolved itself into a court of impeachment for his trial. Five managers were chosen by ballot on the part of the house to conduct the prosecution, viz.: James Buchanan of Penn., Henry R. Storrs of N. Y., George McDuffie of S. C., Ambrose Spencer of N. Y., and Charles Wickliffe of Ky.

William Wirt and Jonathan Meredith were the counsel of Judge Peck. The trial was conducted with great ability on both sides, and became celebrated in the annals of American jurisprudence. Mr. Buchanan closed the case, confining himself solely to the legal and constitutional questions involved, and to pointing out the difference between the principles which govern English courts and those which under the constitution must govern those of the United States. Though the senate, by a vote of 22 to 21, refused to punish Judge Peck, it shortly afterward unanimously passed an act · obviating whatever technical objections then stood in the way of his conviction, and so framed the law that no judge has since ventured to commit a similar offence. In 1831, at the close of his 5th term, Mr. Buchanan voluntarily withdrew from congress, but was soon afterward selected by Gen. Jackson as envoy extraordinary and minister plenipotentiary at St. Petersburg. In this capacity, he concluded the first commercial treaty between the United States and Russia, which secured to our merchants and navigators important privileges in the Baltic and Black seas. In 1888, on his return from St. Petersburg, Mr. Buchanan was elected to the U. S. senate. A great revulsion in politics had taken place during his absence from the country. A rupture had occurred between Gen. Jackson and Mr. Calhoun, which eventually led to the dissolution of Gen. Jackson's first cabinet; a new tariff had been enacted after an impassioned struggle, and the battle against the renewal of the charter of the U.S. bank had begun and been led to a final issue. The first symptoms of that sectional animosity which has since been gradually on the increase, were already observable in and out of congress. It was, indeed, impossible that such important measures as the removal of the deposits from the U.S. bank, the abrogation of its charter, the tariff and the force bill, should follow each other in quick succession and affect such a variety of interests, without exciting those who felt themselves aggrieved to the most determined resistance. That resistance extended even to the government officials, and with a man of Gen. Jackson's unbending character, naturally led to a pretty general removal from office. The cry of "proscription" was raised in consequence, and an attempt was made by Mr. Clay and his followers to deprive the president of the power of removal from office without the sdvice and con-sent of the senate. Mr. Buchanas argued the necessity of appointing officials by the president alone during the recess of congress, and exposed the personal hostility to Gen. Jackson which prompted all these proceedings. The opposition of the U.S. senate to the acts and measures of Gen. Jackson rose to historical importance, and only terminated with the close of that extraordinary man's career, when that body itself expunged the record of its animosity by a decisive vote.—During the session of 1885-386, a new element was introduced into

national politics, as to which Mr. I has never made any secret of his vis he perceived, the ideas of liberty and which swayed the public mind of I ward the close of the 18th century their indefinite expansion, embraced t of the African negroes. With the 1 Paris, in 1814, the doctrine of libe equality, as far as it related to Eu had effectually received its quiet sovereign princes who, during the met at the congress of Vienna, thou a fit occasion to exhibit their regard negroes, in other words, to raise the ard of liberty for the blacks out of while that of the whites in Europe v down and furled. The emperor of la king of Prussia, and the emperor of could without danger proclaim that e gro touching their soil should be free had none but white serfs, and there likelihood of negroes taking refuge They could contend aga countries. slave trade in which they had never rectly or indirectly interested, and the nothing in proclaiming the abstract freedom of the negro, after they had covenant among themselves to put of force any struggle for constitutional li Europe. The government which, ab time, was established in France on the and hot ashes of revolution, was but to turn the attention of Europe to Africa, and the West Indies; while above all other countries, was most in in holding up negro slavery to the se detestation of Europe. The example of had much to do with the first French tion, and that brilliant example had t nished and rendered odious by exhibi contrast of negro servitude. At the referred to (1835), the slavery agitation in its infancy; it was confined to a of persons who printed and publis abolition papers in the north, and occirculated copies of them in the states, through the mail. The only bearing of the agitation was throuto congress for the abolition of slav district of Columbia. Yet as it u these incipient steps appeared to the ma public men in the United States, Mr. B perceived the ultimate political conse the movement. He desired to stifle t in the bud, by some act of congress wante prevent the question of slavery from raised and discussed in that body. He to receive the petitions or 1 abolition of alavery in the declare, after respectfully considering congress had no power to legislate on ject. "I repeat," said Mr. Buchanan, intended to make as strong a motion in as the circumstances would justify. It sary that we should use every consti effort to suppress the agitation which

turbs the land. This is necessary as much for the happiness and future prospects of the slave sor the security of the master. Before this sorm began to rage, the laws in regard to have had been really ameliorated by the slaveholding states; they enjoyed many privileges which were unknown in former times. In some of the slave states prospective and gradual enacipation was publicly and seriously discussed. But now, thanks to the efforts of the sholitionists, the slaves have been deprived of these privileges, and, while the integrity of the Union is endangered, their prospect of final emancipation is delayed to an indefinite period. To leave this question where the constitution he left it, to the slave-holding states themselves, is equily dictated by a humane regard for the days as well as for their masters." mission, and among them Daniel Webster, via at that time, opposed the motion of Mr. Bedenan, by degrees came to approve of it. and the senator from Massachusetts, in his selected 7th of March speech (1850), almost is smany words reechoed the views and sentiments of Mr. Buchanan on this subject.—It is hedly necessary to say that Mr Buchanan sympathized with the struggle of the Texans against state Anna, then president of Mexico, and urged the recognition of the independence of Texas by the United States; so, too, at a subsequent period he advocated the admission of Texas into the mion.—Toward the close of Gen. Jackson's administration, the French indemnity question had risen to a threatening importance. Gen. section insisted on the prompt payment by frace of the debt due to our citizens, and there relly seems to have existed on the part of Louis Philippe, then king of the French, an honest discontion to discharge that debt. But the freign policy of that unfortunate prince had streety given umbrage to the opposition, his con-dect in regard to the affairs of Poland and Italy had estranged the liberal party, and the suspicion that the care for his own family made him tecrifice the honor and glory of France, began to prevail. Accordingly when he recommended to the chambers to provide for paying the indemmy, the chamber of deputies rejected the proposally a majority of 8 votes. This was simply a refind the indemnity by the French government, ad Gen. Jackson thereupon demanded an appro-Fisher of \$3,000,000 for the increase of the y, and the defence of our maritime frontier. Mr. Buthasan, in supporting this demand of the president, reviewed the whole question, and so clearly established the justice of the claim, and the error into which the French government had fallen, that the payment of the money was no disgrace to France, and could by no one be secribed to other than honorable motives.—A by important question arose on the admission of Michigan and Arkansas into the Union. Objection was made to the right of voting of resideat aliens, which right Mr. Buchanan sustaind; holding that aliens, who were residents of the north-western territory, had a right, under

the ordinance of 1787, to exercise the elective franchise.—Having been a supporter of Jackson's administration from the beginning, Mr. Buchanan gave the celebrated expunging resolutions, introduced by Mr. Benton, his ardent support. During Mr. Van Buren's presidential term Mr. Buchanan's powers as a debater came especially into play. The whole talent and energy of the opposition were brought to bear on the leading measure of the administration—the establishment of an independent treasury. Clay, Webster, and John Davis, of Massachusetts, were especially pitted against Mr. Buchanan, in a combat which involved not only the success of the measure, but the ascendency of the demo-cratic party. Mr. Van Buren had not the same hold on the people's affections which distinguished his predecessor. He had been elected by a diminished majority of the popular vote, and the opposition, from this fact alone, had conceived new hopes of success. To defeat the independent treasury was to defeat Mr. Van Buren's administration, and to secure, in 1840, the election of a whig president. The presidential campaign was indeed commenced at the very outset of Mr. Van Buren's administration. During Jackson's administration, Mr. Buchanan had been the leader of a victorious phalanx; under Mr. Van Buren he defended an unpopular measure, against an overwhelming combination of talent and circumstances. His arguments in support of the independent treasury, his review of the history of the late U.S. bank, his financial exposition of the wants of the country, his views on the currency, on the influence of moneyed institutions and corporations on the moral and political conditions of the country, may now be profitably consulted by the student of history.—The question of the preëmption rights of settlers on the public lands being raised, Mr. Buchanan defended them on the ground of justice to the settler, and economy to the government. Another important question arose under Mr. Van Buren's administration in regard to the alleged interference of federal officers in elections. A bill was introduced which proposed to punish by a fine of \$500—the one moiety payable to the informer and the other to the United States—and by a perpetual disability to hold office under the United States, any officer of the government below the rank of a district attorney who should by word, message, or writing, or in any other manner whatsoever, endeavor to persuade any elector to give, or dissuade any elector from giving, his vote for the choice of any person to be elector of president and vice-president of the United States, or to be a senator or representative in congress, or to be a governor or lientenant-governor, or senator or representative, within any state of the Union, or for the choice of any person to serve in any public office established by the law of any of the states. This measure was opposed by Mr. Buchanan with all the powers of his mind, and was soon abandoned.—The election of Gen. Harrison left the

democratic party, in both houses of congress and in the majority of states, in what was then deemed a hopeless minority. The revulsion in business had produced a revulsion in politics, and it was natural for the opposition to endeavor to regain in the shortest time the ground which they had lost during 12 years of democratic rule. One of the first measures introduced during the extraordinary session of 1841 was the repeal of the independent treasury. This accomplished, the way was paved for the recharter of a U. S. bank, but Gen. Harrison died before he had an opportunity of signing the bill, and his successor, John Tyler, vetoed it. Its successor, the "fiscal corporation," shared the same fate; not, however, before Mr. Buchanan had been afforded an opportunity of humorously opposing it.—On the arrest of McLeod, a person who had boasted of having been concerned in the outrage committed on the American steamboat Caroline, during the Canadian rebellion of 1887. and the demand of the British government for his surrender, Mr. Buchanan took ground against yielding to the demand, and contended that if McLeod were actually guilty, he should be tried and punished according to the laws of the state where the crime was committed. This view of the subject also prevailed with the administration. McLeod was tried for murder in the state of New York; but, as he was acquitted, the case received a natural solution independent of the action of either government. The repeated vetoes of President Tyler exasperated the whig majority in congress to such a degree that Mr. Clay seriously introduced a proposition to abolish the veto power conferred by the constitution on the president. On the other hand, Mr. Buchanan contended that, so far from limiting the power of the people, the veto power was a potent means of doing them justice. It was but a curb on the momentary supremacy of fac-tion, and a means of safety to the people of the weaker states. Mr. Buchanan also opposed in secret session the ratification of the Webster-Ashburton treaty, not so much because the north-eastern boundary line between the United States and the British provinces of North America, determined by that treaty, did not correspond with what he thought it ought to be, as because he believed that it did not settle other matters of dispute then existing between the two governments.—The most important part of Mr. Tyler's administration consisted in the steps which he took for the annexation of Texas. Mr. Buchanan, as has already been stated, was one of the earliest advocates of that measure. In his remarks on the subject, he observed that: "While the annexation of Texas would afford that security to the southern and south-western slave states which they have a right to demand, it would, in some respects, operate prejudicially upon their immediate pecuniary interests; but to the middle and western, and more especially to the New

England states, it would be a source of mixed prosperity. It would extend their o merce, promote their manufactures, and crease their wealth. The New England resisted with all their power t accuis. Louisiana; and I ask, what we l those have been at this day without u They will also resist the annexaur with similar energy; although, a r it been acquired, it is they who win reap r it i chief pecuniary advantages frition." Mr. Buchanan urged in and adverted to the fact that hau mr. .. delayed the acquisition of Louisians one short month that invaluable territ not have been acquired without involving country in war. The treaty of anno ceived only 15 votes in the senate; less, after the election of President Pe was finally admitted by joint reso ed 8 days before his inauguration. chanan was the only member of the oou on foreign relations in the senate who septers ed favorably on the admission, and it was hi last senatorial act.—With the accession of Mr Polk to the presidency, Mr. Buchanan had as secretary of state, the initiation of thos measures which he had hitherto nded a chairman of the committee on fo tions in the senate. England anu . had both claimed the whole north-west territory-Mr. Polk in his message to c and the British premier in a spee British parliament. The protocol between Buchanan and Mr. Packenham induced L. land to accept the compromise line of lat. Mr. Buchanan had felt himself obliged to this line, because Mr. Tyler had offered a before him, but it was rejected by Mr. Pacl ham. Hereupon Mr. Buchanan, in an elaw rate state paper, exhibited the claims of the United States to the whole territory, and concluded by a formal withdrawal of his offer This decided the fate of the controversy. I amounted virtually to a dismissal of ham as a negotiator, and shortly duced a direct proposal from the bu ment to settle the boundary on the se proposed by Mr. Polk. The Bri h 50 ment declared this to be its ulti dilemma Mr. Polk referred the propthe senate, and the senate advised its aux ance.-Our difficulties with Mexico were w so easily settled. Irritated by the advance of troops to Corpus Christi, she had crossed the a Grande, and commenced hostilities without a we claration of war. The president and his cabine held that there was no alternative but to repe the attack by force, and to compel a of all the outstanding questions at the mouth. Congress shared these views, and a once passed the necessary acts and approp tions. How that war was conducted wit meeting with a single reverse, how our L naval forces distinguished themselves by we skill and daring how our volunteers participat

council of the city of New York tendered him the hospitalities of the city, and his whole journey thence to Lancaster, Penn., his home, resembled a triumphal march. The democratio convention, which assembled at Cincinnati in June following, nominated him unanimously for the presidency, and he was elected, receiving 174 electoral votes from 19 states.—Immediately after his election the popular passions, which had divided the Union almost into 2 hostile camps, began at once to subside, so that, at the time of his inauguration, in March, 1857, the country looked forward with confidence to a period of political calm, and to a new era of national prosperity. But the Kansas territorial question, which had so largely entered into the presidential canvass, was still unsolved; the Central American difficulties had not been settled by the Dallas-Clarendon treaty; no decided steps had as yet been taken in regard to the fillibuster movements which embroiled our foreign relations; and the claims of our citizens against Spain remained wholly unadjusted. The country, it is true, had become tired of the slavery agitation; but the expectation was raised that it would be impossible for Mr. Buchanan to satisfy both sections, and to enlist the representatives of both in his support. Mr. Buchanan, however, took an early opportunity to let his sentiments on the Kansas question be known to the public. In an address which he delivered to the students of Franklin and Marshall college, at Lancaster, in Nov. 1856, Mr. Buchanan remarked that the object of his administration would be to destroy any sectional party, no matter where it existed, whether in the North or in the South, and to restore, if possible, that national, fraternal feeling between the different states, that had existed during the days of the fathers of our republic. So, in his inaugural address, de-livered in March, 1857, he clearly expressed himself on the slavery agitation, and the mode in which the difficulties in Kansas were to be settled. But there was a party in Kansas which, firmly believing that they constituted the majority of the people, refused to obey the laws enacted by the local legislature of the territory, though these laws had been recognized by congress; and they went so far in opposition to them, that they elected a rival legislature, which attempted to enact different laws for the government of the peo-ple of the territory. These acts the president, in his capacity of chief executive officer, could not recognize as legal, while the governor of the territory himself pronounced them revolutionary, and required the presence of federal troops to preserve the public peace. Mean-while, that territorial legislature recognized by congress passed an act for the election by the people of delegates to a convention to frame a constitution for the state of Kansas. An election was accordingly held, and the delegates returned met at Lecompton, and proceeded to perform their task. It has been objected by

the opponents of Mr. Buchanan's tion, that frauds were committed uur election, that some counties were no sented at all, and that the convention represent the majority of the people. the friends of the administration repli every facility was given to the vote frauds were committed on both sides. the populous counties were represent that when a majority refuse to vote, alleged was done during the election of bers of the convention, the men thus ab from exercising the franchise, are co abide by the act of those who do your ter whether the voters constitute a maj a minority of the electors. The conafter a protracted session, completed it but, contrary to the general expectation mitted nothing but the slavery clause ratification of the people. Now it w tended by some that the convention wa to submit the whole constitution to a the people; while others, though the have preferred that mode of action, he there were examples enough on record history of admissions of states, in wi constitution framed by the convention submitted to the people, and that, the this omission could not invalidate the the convention in a legal or constitution of view. Beside, it was contended that vention had submitted the most import —the slavery clause—to a direct vote people, declaring that if the clause we down no slavery should exist in the state this new agitation for "popular sover was going on, and before the people has on the clause submitted to their a congress assembled. Mr. Buchanan this the proper time for stating his v the subject, though he refrained from an actual recommendation to congr his treatment of this question Mr. Bu had no other object than to act as peace between the 2 great geographical section Union. All men foresaw that Kansas a free state; but he held, that if the quest settled by the admission of the state w Lecompton constitution, then the Sout not complain that its rights had been abs and prejudiced; while the North, wh sure of enjoying the substance of the could well yield that point. The p also held to the power of the people of to "change their constitution within period" after being admitted into the notwithstanding a clause in the col which, after the year 1864, requires thirds vote for that purpose. Mr. considered that clause to be null by the very declaration of rights, a roborated this view in a special mee congress, Feb. 2, 1858, after the Lec constitution, with the slavery clause in been submitted to congress. The ad of Kansas with the Lecompton cons

med the senate by a handsome majority; but it was defeated by a small majority in the house. A committee of conference, however, was asked for by the senate, and agreed to in the house, which led to the passage of a my bill in spirit much the same as that which had been lost in the house, but submitting the whole subject indirectly to the vote of the people of Kansas. If the vote is cast in the affirmsive then the president is authorized to admit Kansas as a state by proclamation; in the promite case, she shall not have the right to present berself again for admission till she shall have the requisite population to entitle her, mder the constitution of the United States, to at least one member of congress. In the spirit descliation, and the latter clause being confemale to his own views as expressed in his message above quoted, Mr. Buchanan are his assent to this bill.—A rebellion in Utah also came to a head shortly after Mr. Bochsman's accession to office. The Mormons had assumed an air of defiance against the govensument of the United States, and openly resisted its authority. They treated the loyal citizens of the United States as Gentiles and memics, and formed dangerous alliances with the ladians, while increasing their ranks by constant accessions of emigrants from Europe, sharing the same doctrines with themselves. Mr. Buchanan resolved to crush the spirit of resistance to law and order in the territory, by bringing the offenders against it to condign punishment. For this purpose, a military expedition was organised against Utah, whose numbers and apsintments were such as to preclude all apprehandon of its failure. At the same time, in order to avoid the effusion of blood and the extent of the same time, in that pense of a prolonged guerrilla warfare in that meuntainous country, the president consented, in Jan. 1858, that Col. Thomas L. Kane, who had in former years greatly befriended the Mormons in a time of famine, should go out to their country to endeavor to bring them to peaceful mbuission to the laws; and in order more decidedly to evince this humane disposition, two well-known citizens were appointed in April as Peace commissioners to accompany the army. The efforts of Col. Kane proved successful; and on June 7, Mr. Buchanan communicated to congress the gratifying fact that the rebellion was eded by the submission of the Mormons, and that the reenforcements ordered for the

amy would not be required.

BUCHAREST, the capital and chief commercial emporium of Wallachia. It carries on an active trade in grain, wool, honey, wax, cattle, wine, and perticularly in hides. In the vicinity of the town are extensive slaughter-houses (aclience), noted for excellent tallow and smoked meat. There are manufactories of linen, carpet, bags, and porcelain are imported in large flux, and porcelain are imported in large flux, and porcelain are imported in large of Turkish cloth and of gold and silver wares is chiefly in the hands of Germans, of whom

there are not less than 15,000, comprising many Jews. There are also many Spanish and Portuguese Jews, Greeks, and Armenians engaged in commercial pursuits. The wareengaged in commercial pursuits. The ware-houses are laid out in distinct quarters. Thus there is a quarter of the Leipsikani, i. e. Leipsic merchants, who draw their supplies from the annual fairs at Leipsic; that of the Bacans, or grocers; of the Sarefs, or bankers; of the Kojokars, or furriers; of the Abadjii, or out-fitting establishments; of the Terkoukouls, or toy dealers; of the Matchelars, or butchers; of the Zarzawatji, or green-grocers; of the Skaoumelé. or music dealers and musicians; of the Kofetars, or confectioners; and of the Ferars, or hardware dealers. The millinery establishments are in the aristocratic quarters of the boyars, and the bakers and innkeepers are to be found all over the town. There are also distinct quarters for the Jews (the Ovrai), for the Armenians, Servians, Bulgarians, Germans, and French.—Bucharest is the residence of the hospodar, of the Greek archbishop, of the provincial administration and courts of law, and of the foreign consuls. There are about 100 churches, 20 Greek convents, 5 synagogues, a museum with a public library, a central metropolitan seminary, a society for literature and natural history, 65 schools attended by about 1,500 pupils, 6 hospitals conducted by sisters of charity, an operahouse, a corso to which the fashionable resort in great numbers, a great bazaar, and a remarkable abundance of coffee-houses. The city was founded by Radel the Black, or Negro Wod, who conquered Wallachia toward the close of the 13th century. At the end of the 16th century it fell into the hands of the Turks, who burnt it. On Oct. 80, 1771, the Turks were defeated here by the Russians. Under the treaty of peace concluded here in 1773, the town was restored to Turkey in the following year. By the treaty concluded here, May 28, 1812, the sovereignty of Wallachia was confirmed to Turkey, but under the protectorate of Russia. In 1821, a revolt broke out among the Greek population, which called in a Turkish garrison. In 1828, the Russians took possession of the town until 1829, when the treaty of peace of Adrianople brought it under the rule of the hospodar of Wallachia, in subordination to the supreme authority of Turkey. The town was desolated by a great fire, April 4, 1847. In June, 1848, a rebellion broke out against Prince Bibesko. Turkish forces occupied the town in September, and Russian troops in October of the same year, and were stationed here until May, 1851. In July, 1858, after the outbreak of the Turkish war, Bucharest was again occupied by Russian soldiers, until Aug. 1854, from which time Austrian forces were quartered there until March, 1857. The international congress for the adjustment of the affairs of the Danubian principalities, in accordance with the regulations of the peace conference of Paris, was held at Bucharest in 1858. The town is in a dilapidated condition. The handsomest buildings are the hospodars'

appeared in 1840. The revolution of

palace, the metropolitan church, and the Austrian consulate. French literature is the favorite study, and the French language is frequently spoken by the educated classes. The inhabitants are noted for their frivolity and extravagant love of pleasure. Journalism is not flourishing in Bucharest, the Bukareschter Zeitung having ceased to appear in 1854, and the only prominent journal now being the Bulletin, which is an official organ. The extent of the town, which is about 4 miles from north to south, and nearly 8 from east to west, would admit of a population of 400,000; the actual inhabitants, however, are only 107,000.
BUCHARIA. See BOKHARA.

BUCHER, Anton von, a German divine, born in 1746, in Munich, died there in 1817. He was superintendent of the schools in Munich in 1771, and in 1778, upon the abolition of the order of Jesuits, he became rector of the gymnasium and lyceum. He was an indefatigable opponent of the Jesuita, against whom several

of his writings were directed.

BUCHEZ, PHILIPPE JOSEPH BENJAMIN, a French writer, who was, for a short time, president of the national assembly in 1848, born at Matagne, in the then department of Ardennes, March 31, 1796. He commenced the study of medicine in 1815, and received his degree in 1825. He was a violent opponent of the restoration, was engaged in conspiracies against the Bourbons, and in 1821 was instrumental in founding the French carbonari society, in imitation of that of Italy. A few weeks after the establishment of this society in France, its members boasted that it numbered 200,000 men. The conspiracy was discovered and crushed, and many of those engaged in it were convicted and punished with imprisonment. The judges disagreeing in the case of Buchez, he was set free, and immediately devoted himself to scientific studies, published treatise on hygiene, and established in 1827 the Journal des progrès des sciences et institutions médicales. He was also a contributor to a weekly periodical, Le producteur, which advocated the doctrines of St. Simon. For some time he continued to take part in this publication, although differing in many points from his collaborators; but when the panthe-istic direction of the new doctrine became more apparent, he separated himself from the school. After the revolution of 1880, he established L'Européen, which dealt with questions of morals and of practical life. In 1833 appeared his Introduction à la science de l'histoire, ou science du développement de l'hu-manité, in which his philosophical views are elaborately presented. In concert with M. Roux he commenced, in the same year, the publication of the Histoire parlementaire de la révolution française, in 40 vols. The last and most important of his works, which has, we believe, never been completed, is the Essai d'un traité complet de philosophie, au point de vue du sutholicisme et du progrès, 8 volumes of which

1848, threw him again into politics came deputy-mayor of Paris under was elected member of the national from the department of the Seine, and the presidential chair. When the asse attacked by a mob, on the 15th of showed much indecision of character since that time returned to private lif BUCHHORN, KABL LUDWIG 1 CHRISTIAN, a German professor of e born at Halberstadt, April 18, 1770, die lin, Nov. 18, 1856. On March 12, 181 made a member of the Berlin academ 1814 professor and member of the a senate. In 1824 the direction of the engraving devolved upon him. He b \$7,500 to the Berlin academy, and \$3,0 of his native town, the interest of bot go toward the support of poor artists. BUCHNER, GEORG, a German poe

1818 at Goddelau, near Darmstadt Zurich in 1887. He had studied at 8 and Giessen, and for some time lecture omy at Darmstadt. He was an enth German liberty, and a member of 1 political societies while at the uniwas implicated in the Frankfort of 1888, and fled first to Strasbour 1886 to Zurich, where the unive upon him the title of doctor of pince 1885 he published a play on "I He left a drama, fragments of Loveis, MSS. for publication to his friend He had also published during his lifetin dy of his own composition entitled "L Lena," and "Lucrezia Borgia," and "dor," translated from the French of Vie

BUCHWALD, JOHANN HENDRIK, poet, born at Vienna, Oct. 2, 1787 parents were travelling. He was ed Copenhagen, served in the French ar the wars of the empire and after the re till, in 1823, he was decorated with th the legion of honor. In 1828 he was professor of French literature in the of Kiel, which he held till the revo 1848 obliged him to leave it. He h several volumes of prose and verse Danish and French, among which are nirs," the "Poetical Age of a Seanc" Flowers of Kiel," "My Auditory,"

"Young Invalid."

BUCK, the male of some wild a chase, and of some domesticated qui properly and generally, the male of deer, dama vulgaria, or common par England. The term buck is also applied to males of the roe (capreolus caprea) of the spotted axis (axis maxima) of the antelopes of all species, of the domestic goat, and of the rabbit; erly, to the male of the American de Virginianus), of the black-tailed demacrotis), and of the Mexican deer (a seasus). The application of the term b

species of deer last named, and yet more to the American elk (cerous Canadensis), is incorrect, became the true name of the males of those deer which rank as cervi is stag or hart, while that of the female is hind. Wherever the word back is correct of the male, doe is proper of the female. The young of both varieties are indisciminstely known as fawns, though of the young of the hart and hind calf is the true term. back of the fallow deer of England is of 2 varisies, the one spotted, which is said to be decended from the spotted axis of India, the other deep brown, which is said to have been introduced from Norway by James I., who was enthuistically devoted to the chase, especially that of the buck, and in whose reign the royal beckbounds were first kept up as part of the resistablishment. It is remarkable that where illy and red deer are kept together in the me parks, as is often the case in Great Britain, they never associate in companies, much less are mer known to breed in common, but carefully swid each other, even so far as to shun the places which either species may have chanced to The bucks of the fallow deer are much smaller than the harts of the red deer, ad are easily distinguished from them by their homs or autiers, which, instead of being round and pointed at the upper extremity, with several forward times or branches, are round only at the bese near the head, having a single pair of brow entiers, and a single pair of anterior points a little higher up the stem, above which the horns preed out into flat palmated surfaces, projecting ittle forward at the top, and having several poterior sharp snags or processes. The buck, tering his 1st year, is called a fawn; the 2d a packet; the 8d, a sorrel; the 4th, a sore; the 5th, a buck of the first head; the 6th, a great buck. The fallow deer breed at two years all, and bring forth 1, 2, or 8 fawns; they come to their maturity at 8 years, and live to about 20. The rutting time of the buck commences about the middle of September, after which he is out of season, his flesh being no longer eatable. Hesheds his horns in April or May, and his new ones are fully grown about the end of August. He is in height of season in July. The doe comes into season when the buck goes out, and contimes until twelfth-tide. She begins to fawn in May, and continues until midsummer. The bucks together, and are far more companionable than the harts, and are exceedingly easy to be tamed, when they become impudently familiar and intimate. The cry of the buck is called braying or grunting, sometimes growling, as that of the hart is termed belling. The fallow deer are kept in England merely as ornaments to park scenery and for supplying venison to the table; never any longer, as of old, for sporting perposes. When wanted for their flesh, a fat one is singled out from the herd, and shot with arile by the gamekeeper; for a sportsman would soon think of shooting his mutton or beef for seport, as of killing the domesticated deer port. The venison is infinitely more suc-

culent, tender, and juicy, than that of the red deer, and it is not unusual to find the buck, in high season, with 8 and 4 inches of fat on the brisket. Various pastures produce various degrees of excellence in the venison. Where the wild thyme grows abundantly, the flesh of the deer is noted for its delicious aromatic flavor; and it is remarked that the more level and luxuriantly pastured parks of the south of England produce the fattest venison, while those of the north, abounding in broken ground, glens, and knolls, covered with broom and fern, yield it of the highest flavor.-So late as the reigns of the Stuart monarchs, shooting the fallow deer with the crossbow, coursing it with greyhounds, in the royal parks and chases, and turning it out to hunt with the buckhounds, were royal amusements. The buckhounds are still kept up, and the "master of the buckhounds" is a high, honorary court office, held by some sporting nobleman; but they no longer hunt the buck, the hart or stag of the red deer having been, for many years, substituted for the fallow buck, as being far more cunning, stronger, fleeter, and capable of supporting longer chases. In many parts of Germany, in Denmark, Norway, and Sweden, the fallow deer runs wild in the forests, and is strictly preserved for the use of royalty and the territorial nobles. It is usually driven with hounds, or beaters, and killed with fowling pieces and buck-shot. The male of the Amer-ican deer, improperly called buck, comes into season, generally, in August, and continues until midwinter. He is either killed by what is called still-hunting, without the use of dogs, the hunter depending on his eyesight and wood-craft alone, and stealing upon him while feeding, ruminating, or sleeping, when he is shot with the rifle; or by driving him up to persons ambushed at what are known as stands, on the deer-paths, by which he goes to water, who generally use shot In the southern states, he is hunted on horseback, with packs of foxhounds, trained to pursue his scent, which is the sweetest of all to high-bred hounds; and in the western states he is sometimes coursed with greyhounds,

or the large, shaggy Scottish deerhound.
BUCKEBURG, a part of the German principality of Schaumburg-Lippe. The town of the same name, with a pop. of 10,000, is well built, has 5 gates, and contains a handsome castle. In

its vicinity is the summer palace of Baum.
BUCKEYE. See Horse Chrstnut.
BUCKINCK, Arnold, a German engraver on copper, in the 15th century. In company with Sweynheym, he undertook the printing of the works of Ptolemy with engraved maps (Rome, 1478). He is considered the inventor of the art.

BUCKINGHAM, a county of Virginia, S. E. of the centre of the state, bounded N. and N. W. by the James river, and S. by the Appomattox, was organized in 1761 and named from Buckingham, England. Area, 680 sq. m.; pop. 13,887, of whom 8,161 were slaves, and 750 free colored. The surface is somewhat hilly, and the soil not very rich, except near the

rivers. Tobacco is its great staple. The productions in 1850 were 804,711 bushels of Indian corn, 133,819 of wheat, 117,091 of cats, 2,842,987 pounds of tobacco, and 88,480 of butter. There were 2 corn and flour mills, 3 saw mills, 19 churches, and 194 pupils attending public schools. In the vicinity of Willis mountain, the principal elevation, are gold mines. Ir. in is found here, and valuable slate quarries have been opened near the Slate river. The county. Its real estate was valued in 1850 at \$2,103,599; in 1857 at \$2,419,006, showing an increase of 15 per cent. Capital, Maysville.

BUCKINGHAM, a market town, parliamentary and municipal borough, and parish of England, in the county of its own name; pop. of parliamentary borough in 1851, 8,069. built on a peninsula formed by the windings of the river Ouse, which is here crossed by 8 bridges. A branch of the grand junction canal runs through it, and a branch of the London and north-western railway gives easy communication with the metropolis, 61 miles N. W. The streets are irregular, but paved, well lighted, and lined with neat brick houses. The chief public buildings are the town hall, the jail, and the large parish church, erected in 1781; there are also various chapels, a free grammar school founded by Edward VI., a green coat and national schools, 2 hospitals, and a workhouse. Buckingham once kept numbers of women employed in lace-making, but this branch of industry is now declining. There are some brewertry is now declining. ies and tan-yards, and in the vicinity are corn and paper mills and quarries of limestone and marble. The town is very ancient; it was erected into a borough by Henry VIII

BUCKINGHAM, DUKES OF, English nobles of different families and creations, from an early date to the present day. The title of earl of Buckingham seems, at first, to have been borne by the younger sons of the Plantagenet kings; as we find was the case with the youngest son of Edward III., who was created duke of Gloucester by his nephew, Richard II., and subsequently murdered, by his orders, in the castle The title of duke of Buckingham at Calais. was borne, during the wars of the roses, by the noble family of Stafford, descended from the daughter of the above duke of Gloucester, several members of which fell, either in the field or on the scaffold, in the course of that long and cruel struggle.—In the battle of St. Albans, A. D. 1455, in which was shed the first blood in that domestic quarrel of 80 years' continuance, which required 12 pitched battles before it was brought to a close, cost the lives, as it has been computed, of 80 princes of the blood, and almost entirely annihilated the ancient nobility of England, was slain Humphrey, earl of Stafford, eldest son of Humphrey, duke of Buckingham. Ten years later than this, in the bloody battle of Northampton, fought between that city and Towcester, "in which the king's army was profligat and discomfitted, and of the same

slayn and drowned in the ryver fewe lesse x thousand talle Englyshmen," was killed Euss phrey, duke of Buckingham, fighting on the of Lancaster, to which party the family a thus far attached itself.—HENEY STAFFORD, next duke of Buckingham, although son au grandson of 2 noblemen conspicuous for th faith to the house of Lancaster, became a v the crown, neither his title nor his fortunes una ing been attainted; and was subsequently marrie to Catharine, the sister of the beautiful Elizab Woodville, Edward's queen. After the de of Edward, his brother George of Clarence his heirs having been set aside by attainder su high treason, and the appointment of Richard of Gloucester to the protectorate, during minority of Edward V., we find this duke of Buckingham, acting as the about u Richard, promulgating the statement that, pre vious to his marriage with Elizabeth, the lat king had been secretly married to the lad Eleanor Talbot, without any witnesses, by Stil lington, bishop of Bath, who afterward divulce the secret; and that, consequently, his quent marriage with Elizabeth was voiu, as the issue of that marriage spurious. On strength of this vain pretext, he pro-Richard III. at the guildhall, and procuring w acclamations of a certain portion of the audience packed beforehand for the purpose, tendered the crown to Richard, as the free and spontane ous gift of the people, who were resolved t have a new prince, in lieu of the infant Edw a gift which, after some affected oppo on. usurper pretended to accept with l wonder. Shortly after this, he co ... ton, bishop of Ely, whom he had to some t held prisoner in the tower, to free custo charge of Buckingham, who, at his frier onation, astonished the eyes of all men uy a splendor of his own dress and accoutrem by the magnificence of his horse's business which were so heavily charged with embroic ies and blazonries of burnished gold, that it v necessary to have 4 gentlemen, walking by a side of the horse, to bear up the trappings fr the ground. Shortly again, however, whether as it has been said, he was brought over by th bishop of Ely to the part of the Lanc or whether ambition urged him forward, or resentment against Richard for not having bet ter rewarded his services, he entered into n tiations with Henry, earl of Richmond, a being summoned by King Richard to re court, knowing his danger, took up arn raising a great power of wild Welshmen, march ed into Gloucestershire, with the intent of join ing the Cornish men who had set up the e Richmond's standard. A rising of the Se however, prevented the junction; and Welshmen having become impatient of dem and inactivity and dispersed themselves, he wa obliged to seek safety in disguise. Being, how ever, betrayed by his servant Bannister, he wa apprehended, and, on his own confession, b which he vainly hoped to obtain pardon, v

ndenned and beheaded in 1488, on a new model, in the market place at Salisbury.—The ent dake, EDWARD STAFFORD, was restored to his rack and dignities, and reinstated in his posmenions, as one of the first acts of his reign, by Heary VII. He was a man of great wealth and midrable influence, and made himself very icuous by the splendor of his apparel, which is described by Hall as "a gown all of mith's work, very costly," on the occasion of the first entrance of King Henry VIII. into lorder after his accession to the throne. For sme coniderable time, Buckingham was in high favor with the court; and perhaps the first thing which affected his favor was the difficulties which he is reported to have made, and the words which he uttered, in reference to the extraordinary expenditures which he was fell of the cloth of gold. About this time Butingham, it appears, gave mortal offence to Cardinal Wolsey, being as proud of his un-custioned blood as the churchman, after his evition, was forgetful of his ignoble origin. He was once, it is said, in performance of his my of chamberlain, holding the basin for the g to wash before meat, when the cardinal dipped his hands into the vessel; whereat the and blood of the Staffords rose so highly, moking not to be made to play the part of serving man to the son of a butcher, that the duke, by a pretended accident, flung the water into the moss of the prelate. Wolsey, as it is reported, roused Buckingham that he "would sit on skirts," frowning revengefully as he used the was; whereupon, in order to show his scorn and his defiance, the proud noble repaired to cont clad in a short jerkin, so as to attract the station of the king; to whom, on his asking the cause of that singular costume, he replied that "it was to prevent the cardinal from execating his threat, since, if he wore no skirts, they could not be sat upon." However true this medate may be, and whatever ill influence Wolmy may have exerted against him, there were othmural causes which weighed heavily with Heary. Buckingham was descended from Edward IIL, both through John of Gaunt, duke of lacester, and Anne Plantagenet, daughter of Thomas of Woodstock, earl of Buckingham and descent to which latter line of descent he wed his own title. He was not, however, a way near kinsman of Henry's; nor was his chance of succession, at the best, more than remote; yet the Tudors were hereditarily jealous of all who could, through consanguinity, ever, by any chance, be in a position to dispute the accession; and many nobles of the family of Plantagenet had already fallen, and more were is to fall, for no crime but that of their blood. Backingham had, it appears, been thoughtless and foolish, if not worse; he had mented one Hopkins, who had obtained some therity about that time as a wizard, concernhis chances of a royal succession; and had mad me of wild and threatening language,

which might well have given umbrage to a less jealous prince than his master. He was accordingly brought to trial, the duke of Norfolk, whose son, the earl of Surrey, had married Buckingham's daughter, being the president of the court; and after a trial, the witnesses being confronted with the accused and regularly examined, was found guilty of high treason, and publicly executed on Tower Hill, in the 18th year of King Henry VIII. With him ended the ducal title in the house of Stafford; and unfortunate as that family had been, yet more so was that of Villiers, which, after 4 reigns, succeeded to its dignities, since it failed, not alone in fortune, but in character and honor.-During the remainder of the reign of Henry VIII., and those of his immediate successors, Edward VI., Jane Grey, Mary, and Elizabeth, there was no dukedom of Buckingham; but, in 1615, the 9th year of James Stuart of Scotland, in whose court every thing was venal, from the tenure of office, the chastity of women, the honor of men, to the ermine of the judges, the place of cupbearer was bought for George Villiers, a younger son of Sir Edward Villiers, of Brookesby in Leicestershire, born Aug. 20, 1592, died Aug. 24, 1628. He had a fine person, a hand-some face, a ready wit, a fluent tongue, manners of the most approved French finish, a power of conciliating and winning where he chose to do so, and an audacity of insolence and of ambition, which overbore all opposition, and won its way, where merit halted inefficient and in vain. yond this he had nothing; his mind was of the most mediocre order, and he seems to have lacked alike the capacity and inclination for eminent crime, or for the pursuit of virtue. To the desire of some of the leading nobles, Pembroke, Hertford, Bedford, and others, to displace and overthrow one low-born and infamous minion of the English, or rather Scottish, Otho, is to be ascribed the rise of this worthless man. Anne of Denmark was with difficulty induced to accede to the scheme of advancing George Villiers with the king, in order to subvert Robert Carr, earl of Somerset; as, it seems, she had formed a clearer and truer estimate of the young man's character than any of the others. "My man's character than any of the others. lord," she said to Archbishop Abbott, who was employed to gain her cooperation in the plan, "you know not what you desire. If Villiers gain the royal favor, we shall all be sufferers. I shall not be spared more than the others. The king will teach him to treat us all with pride and contempt." And so it fell out; for the scheme was pushed successfully, without regard to the queen's advice. On St. George's feast, he was made gentleman of the privy chamber, and the next day was knighted. Only 2 years later, the new favorite ventured to try his power against that of the celebrated Bacon, who had presumed to take part against him in an unseemly transaction regarding the forced marriage of the daughter of Coke with Sir John Villiers, Buckingham's brother. But Bacon, soon finding himself unable to contend against

the new influence, succumbed, and was rewarded by his appointment as lord chancellor, and his creation as baron of Verulam. From that day forth, George Villiers became, to all intents and purposes, the king of England. He was already baron, viscount, earl and marquis of Buckingham, privy councillor, knight of the garter, master of the horse, and lord high admiral of England. The distribution of peerages, offices, church preferments, the direction of the courts of law, the control of all departments of government, were his alone; and, by the sale of every thing previously held sacred, as also by possessing monopolies of most articles in daily use, he was able to make his wealth grow pari passu with his power. Year after year, his power and influence continued to increase; until, in 1623, he went off in company with Prince Charles, afterward the unfortunate Charles I., to Madrid, with the secret connivance of the king, to bring about a marriage between the heir of the English throne and the Spanish infants. Buckingham's intolerable arrogance, however, broke off the match, which was exceedingly distasteful to the people of England, as it was understood, not probably without some shadow of reason, that the marriage would be accompanied, or preceded, by the conversion of the prince to the Roman Catholic religion. Buckingham, who was created duke during his absence in Spain, seems to have been actuated only by a desire of mortifying and disgracing the earl of Bristol, who was English minister at Madrid, and of wantonly displaying his authority. The worst feature of the whole matter was its ruinous effect on the character of the prince of Wales; who here received lessons, which he never unlearned, of simulation and dissimulation. For a time, owing to his conduct in relation to the Spanish marriage, Buckingham fell into suspicion if not into disgrace with the old king, who had not, however, the courage to resist the impetuous arrogance of his favorite, or the calm and serene obstinacy of his son; but the popularity which the favorite gained with the people, and with what was known as the country party, together with the influence he had acquired over the weak yet stubborn character of the prince, more than recompensed him for the loss of the dying king's affections. His last act, in the reign of James, was to negotiate an alliance with Henriette Marie, the daughter of Henry IV. of France; but James was already dead before the treaty could be ratified, though his death did not prevent the celebration and consummation of the marriage, almost before his body was cold in the grave. Over Charles I. continued the dominion of Buckingham, in a form even more obnoxious than that which he had exercised over the father; and as he governed the king, so was he governed by his favorite, the earl of Holland. He made alliances with foreign powers, and broke them, at his own pleasure; involved England in war with both France and Spain, the 2 Catholic countries, which it had been the lifelong dream of King

James to conciliate at all hazards; and have been impeached by the house of co in 1626, when the king appointed him clor of the university of Cambridge, in manifest his contempt of parliament, a solved the parliament in order to pre further action against his favorite. Buckingham instigated and commanded pedition against the isles of Ré and which terminated in the disgrace of the arms, in the loss of 1,200 soldiers and of colors. Buckingham was the last to Notwithstanding the notorious incapa man, and the emphatic enunciation house of commons, "that Buckingham cause of all the national calamities," named the favorite commander-in-chie new expedition to be sent for the relie Protestants of La Rochelle. On th day which was marked by the denuncia the house of commons, Buckingham's ph Dr. Lamb, was murdered in the street b don mob; on the next the metrope thus placarded: "Who rules the kin The king! Who rules the king? The duk rules the duke? The devil! Let the du to it, or he will be served as his doctor wed!" He had too much courage to reg menace; yet the menace, whether it l connection with the event or no, was plished; for one John Felton, a lieuter the army, who had been unjustly superse deprived of his arrears of pay, stable mortally in Portsmouth, a few hours be intended sailing of the expedition. Th sin, who was a religious fanatic as well : contented soldier, pleaded guilty to the mission of the crime, confessed his delus pressed contrition, and died penitent ar posed.—George Villiers, second duke of the preceding, born Jan. 30, 1627, die 7, 1688. He was superior to his father ty, in profligacy, and in the depth and is of his fall. But, although he occupied more or less, in government intrigue they were rather connected with person bles and small party conspiracies, entered individual purposes and objects, than w affairs of national and general interest. with the exception of a few intestine especially that concerning the succession duke of York, there was no question tha said to have been of national or general during the frivolous period of Charles was educated at Trinity college, Cambri abroad at the breaking out of the civil . returned shortly afterward, and served t under Prince Rupert and the lord Ge the death of Charles I., his estates were cated; he sought in vain to obtain th toration at the hands of parliament, an elled abroad until 1648, when he r with Charles II.; was present with him disastrous battles of Dunbar and Wor and, on the failure of the attempt, fo the princes to the continent, and serve

whateer in the French armies, under Turenne. He found means, however, again to reconcile self to the powers that were, and, again nturning to England, married the daughter of byterian Lord Fairfax, to whom his etates had been assigned by parliament, on the defeat of the royal cause. The want of principle, however, which he had displayed, all not affect him injuriously with Charles II., minimediately on his restoration, appointed him master of the horse. He was one of that corrupt party of confidential ministers, who were designated as the cabal, a word formed, the the manner of an acrostic, out of the initiels of their names; but, throughout the reign, he was distinguished only for political dishon-esty and social profligacy. On more occaesty and social profligacy. On more occame with the enemies of the court; and was, it can accreely be doubted, guilty at least of miprision of treason, if not of plotting the deconcenent and, perhaps, the death of the king. He set up Monmouth against the duke of York; **Eisalmost certain** that he was, more or less, privy to the Rychouse plot; and he certainly, in the last instance, plotted with the dissenters, the Anabaptists and fifth monarchy men, together with Shaftesbury, for the overthrow of the overnment. His private life was a series of bee broils, shameful intrigues, and mingled adventures of cowardice, impudence, and audacity. He was challenged by Ossory, but contrived to mistake the appointed time and place. He killd Lord Shrewsbury, whose wife he had sedeed, in a duel—the profligate woman, disguis-din a page's dress, holding the horse of her parmour in order to witness the bloody scene; and then, carrying his abandoned mistress to his own house, sent his own injured wife home to her father. He instigated the notorious Col. Blood to kidnap the venerable duke of Ormond and hang him at Tyburn, in which he almost sucmeded. At last, he fell into utter contempt, which no man ever more justly merited, with all parties; was banished from court; ordered into employments; deserted by all his infamous assotes; and at length died, poor, neglected, and wegretted, at Kirkby Moorside, in Yorkshire. He was not without abilities; he displayed some Starry talents, and left a passable comedy, the "Rehearsal;" but his accomplishments and attainments were all mostly superficial; as his only ambition seems to have been to gratify the esprice of the moment, and shine, for that single point of time, preëminent in whatever was the whim of the world for the present minute. The title of Buckingham has since passed into the family of the Chandos Temples, which has pro-

based no person of note.

BUCKINGHAM, JAMES SILK, an English traveller and author, born at Flushing, near Pamouth, in 1784, died in London, June 30, 1855. While yet a child he lost his father, who had been a seaman, but then occupied a small farm. He went to school at Falmouth,

and was intended for the church, but preferred going to sea, made a few voyages to and from Lisbon, was taken prisoner by the French, and, on his returning home, went into service with a bookseller at Devenport, continuing there 4 years. He again attempted the sea; desert-ed from a king's ship; tried the law for a short time; married before he was 20; succeeded to some property on his mother's death, which he lost by the dishonesty of a trustee; set up as a bookseller, on borrowed capital; became bankrupt; left his destitute wife and child in care of her friends; obtained employment in a London printing office, and eventually at the Clarendon press, Oxford; next was captain of a West Indiaman for some years, and afterward had charge of a ship in the Mediterranean trade. In April, 1818, he sailed for Malta, where he had made many friends, with a cargo of his own; but on reaching his destination, the plague had broken out there and he was not allowed to land. His cargo was put on shore, he went on to Smyrna, and soon learned that by some commercial failures at Malta he had lost all his property there. He now went to Egypt, offered his services to the pasha for the purpose of examining the best site for a canal across the isthmus of Suez; was robbed; returned to Cairo almost naked, and was again despatched on an exploration. He reached Suez, traced the course of the ancient canal, and having duly reported the results, was informed that the pasha had changed his mind, but wished him to purchase ships for him in India, and establish a trade between that country and Egypt. Mr. Buckingham reached Bombay in April, 1815, found it difficult to inspire the merchants with confidence in the pasha, and accepted the command of a large ship belonging to the imaum of Muscat, which was to trade to China on account of that prince. But not having the East India company's license (without which, at that time, no Englishman could reside in India), he was ordered out of the country, and returned to Egypt, where the pasha granted him money, and a firman, which enabled him to travel overland to India, through Syria, Mesopotamia, and Persia, dressed as an Egyptian mameluke. He reached Calcutta in 1818, in command of the imaum's frigate; but being ordered to proceed to Africa to give convoy to several vessels engaged in procuring slaves, as well as to take some on board his own ship, he threw up his command. He so much interested the marquis of Hastings, then governor-general of India, that he obtained leave to reside there; established a daily paper, called the "Calcutta Journal;" offended the authorities by the freedom of his animadversions on public affairs; was indicted, tried, and acquitted; and finally was sent home, and his press seized. Thus was confiscated an income. of £8,000 a year, and a property valued at £100,000. He returned to England in 1826, and commenced a London evening paper, which did not succeed, and the "Oriental Herald," a political and literary review, almost exclusively

devoted to East India affairs, which did. He published, in numerous volumes, his travels in Palestine, among the Arab tribes, in Mesopotamia, and in Syria and Media. He established the "Sphinx," a weekly newspaper, in July, 1827, and, about the same time, the "Athenseum," a literary journal, which passed successively into the hands of the late John Sterling and C. W. Dilke; the "Sphinx" eventually was merged in the "Spectator." He threw himself with great energy into the arena, some time before the renewal of the East India company's charter in 1838, delivering lectures on British India, all over the united kingdom, against the company's commercial monopoly, and subsequently lecturing against impressment of seamen, intemperance, the corn laws, and on other subjects of public interest. He found time for European travel, and published his tours in Belgium, Switzerland, Germany, France, and Piedmont. He joined very warmly in the popular agitation of the reform bill, and the inhabitants of Sheffield (raised into an electoral borough by that measure) returned him as their first member. He retained his seat in parliament until 1887, when he was defeated on a close contest. Soon after he retired into private life, he visited America, on a lecturing tour, freely expressing his opinions on the temperance and anti-slavery questions. Nine octavo volumes contain his travels in America, viz.; 8 on the northern states, 2 on the slave states, 8 on the eastern states, and 1 on British North America. They contain little that had not been told by previous tourists, and their author's own opinions are diffusely expressed. return to England he resumed his lectures, which were generally well attended. In 1843 he established a club, called the "British and Foreign Institute," which was opened with great state by Prince Albert, and had considerable success for some time, with Mr. Buckingham as its manager. The enmity of a leading writer in "Punch" was accidentally excited, and the "Institute" was literally written down, after 3 years' existence, by that lively satirist. In 1849 Mr. B. published a volume on "National Evils and Practical Remedies." In 1851 he became president of the London "Temperance League." In 1855 he published the first 2 volumes of his "Autobiography," but died in that year, before the 2 concluding volumes could appear. His latter years were passed in tranquil competence, for the East India company, with tardy justice, had granted him a pension of £300 a year, and he also had a literary pension of £200 a year from the crown.—Mr. Buckingham's private character was stainless. He possessed considerable abilities; was a graceful, fluent, and sometimes even eloquent speaker; was undoubtedly sincere; had travelled and observed much; and possessed considerable knowledge of men and things, but as a public man, his influence was limited.

BUCKINGHAM, JOSEPH TINKER, a prominent journalist of New England, is the son of

Nehemiah Tinker, of Windham, Conn., wl was born Dec. 21, 1779. His father ex his whole property in supporting the A army during the revolution, and dieu 17, 1788, leaving a family without any of support. Under these circumstance became so reduced that they were obli appeal to the town officials for were supported by them for a win they removed to Worthington, Joseph was apprenticed to a mer. whom he remained for several years. in this family he showed some knowledge, and made himself acquainte the rudiments of an English education. age of 16 he entered the printing office vid Carlisle, of Walpole, N. H., who cor with his printing business the publicat the "Farmer's Museum." Here young ingham first became acquainted with th ments of the profession in which he was ward to gain distinction. After remai few months with Carlisle, he entered the of the "Greenfield Gazette;" where he ret until 1800, when he removed to Boston. I he performed the duties of prompter for a time in a company of comedians, who playe ing the summer months in Providence and In 1806, having changed his name, by appli to the legislature, from Tinker to Buckin which was his mother's family name, he menced life for himself by the publication "Polyanthus," a monthly magazine, which an existence of a year, was discontinued a resumed until 1812. In 1809 Mr. Buckin published for six months the "Ordeal," a ly magazine. In 1817, in company with f L. Knapp, he commenced the publicat the "New England Galaxy and Masonic zine," which continued in his possession 1828, when he sold it. In 1831, in conn with his son, he commenced the publicat the "New England Magazine," which we tinued under his care until 1834, and c contributions from numerous writers was since attained great literary eminence. In he published the first number of the "l Courier," a paper which he continued t until June, 1848. Mr. Buckingham v times elected to the legislature, and, '48, and 1850-'51, to the senate of Mas setts. He has also published, "Specia Newspaper Literature, with Personal Anecdotes and Reminiscences," 2 ve 1852; and "Personal Memoirs and Recolar of Editorial Life," 2 vols., Boston. His ent residence is in Cambridge, Mass.

BUCKINGHAMSHIRE, or Bucks, an county of England, bounded N. by Northan shire, E. by Bedfordshire, Hertfordshire Middlesex, W. by Oxfordshire, and sep from Berkshire on the S. by the river There are the septiment of the septimen

rend Buckenkeim, the home or country of the beech trees, which are still common throughout the county. The surface is pleasantly diversified, the N. parts being undating, the middle occupied by the fertile vale of Aylesbury, and the S. traversed by the Chiltern hills. The principal rivers are the Thames, Thame, Ouse, and Colne. The most important productions are butter, cattle, lambs, poultry, &c., which are carried to the London markst. The Aylesbury sheep are famous for the weight and excellent quality of their fleeces. Backingham, Aylesbury, Marlow, and Wycombe are the chief towns. The north-western and great vectorn railways, and the grand junction case, pass through the country, and send off traches to several of its towns. It gives the title of earl to the family of Hobert.

tile of earl to the family of Hobart.
BUCKLAND, CYRUS, master machinist in the U. S. armory at Springfield, born at Manchester, Conn., Aug. 10, 1799, spent his boyhed and youth upon his father's farm, in the daties of which he assisted, receiving such radiments of education only as were then taught in the common schools of his native state. At the age of 20 he commenced his career in the wheelwright shop of his brother. Is 1832 he entered the employ of the Monson and Brimfield manufacturing company, at Monson, Mass., and afterward of the Boston and springfield manufacturing company, at Chicopse Falls, Mass. At the latter place he was exployed from 1824 to 1828, making patterns, drafting, and in various ways assisting in the haiding of the machinery used in the manufac-ter of cotton fabrics. In 1828 he accepted from Col. Lee, then superintendent of the Springfield armory, an invitation to enter the tervice of the United States. He began his labors at the armory as pattern maker, in which province he had no superior, advancing from that position to that of designer of machinery and tools for the manufacture of arms. By systematic study, he made himself familiar with the construction of every part of the arm, and thus laid the foundation of his future usefalness and success. At different periods he bes eccupied the post of inspector in all the district departments of the armory. He has the been employed by the ordnance departments of the armory. makes an inspector of cannon. His skill and interest in the construction of arms soon beapparent, he was intrusted with the duty of improving and remodelling old weapons and contriving new ones, for the U.S. service. About the year 1842, a desire was manifested by the government for the introduction of labor-saving machines into the armories, and his inventive genius was called into action. He has produced a set of "stocking" machinery, comprising 14 machines for working the gun-stock, from the rough state in which it comes to the armory, to almost a fin-Among the more important of these are the following: 1, a machine for bedding the bare, or cutting the groove in the stock to re-

ceive the barrel; this machine performs its work perfectly in one minute's time; 2, a machine for profiling the stock; 8, a machine for cutting on the butt-plate, and boring and tapping for the screws of the same; 4, a machine for cutting on the 8 bands which bind together the stock and barrel, at one operation; 5, a machine for cutting off the surplus wood between the bands; 6, a machine for second or finishturning the stock; 7, a machine for cutting the bed in the stock, to receive the lock-a beautiful piece of work, and original in construction; 8, a machine for cutting the bed for the guard, with mortise, screw-holes, &c.; 9, a finishing machine for cutting in the band-springs, boring for band-spring and ramrod spring wires. grooving for ramrod, &c. Of this whole set of machines, 2 of them only retain the leading principle of their original inventor, Mr. Thomas Blanchard. By the help of this machinery the gun-stock is completed from the rough in about an hour, occupying about 28 minutes in passing through the machines, and about 87 minutes of hand labor in finishing and smoothing. A military commission was sent to this country by the British government to examine the national armories, and the mode of manufacturing arms by machinery. This examination resulted in an order from the British government for a duplicate set of the stocking machines, which are now at work in the English manufactory of arms at Enfield, near London. This was followed by an order from the Russian government for another set of the same machines, and a third from the London armory company, a private establishment.—Among other inventions and improvements of Mr. Buckland's may be mentioned machines for the following operations: for turning the upper band of the musket, a very irregular and eccentric piece; for punching, cutting, and trimming various parts of the arms; for finishing the cone; for milling screws; for finish-milling and tapping the cone seat; for checking the comb of the hammer; for first-boring the barrel; for turning the barrel; for milling the edges of the lock-plate. Two other machines, being the most recent inventions of Mr. Buckland, deserve a more particular notice. One of these is for rifling or cutting the grooves in the barrel of the new model rifle-musket. Of these grooves there are 8 of equal width, and equal also in width to the spaces between them. These grooves are very shallow, being only .015 of an inch in depth at the breech of the barrel, and regularly diminishing in depth to .005 of an inch at the muz-zle. This regular diminution in depth was the difficulty to be accomplished. Buckland's rifling machine cuts the 8 grooves at once, and so perfectly as to leave them without the slightest burr, scratch, or defect of any kind, of a fine and brilliant polish, and enabling one man to rifle from 50 to 60 barrels per day, against the 8 or 10 which were all that could be accomplished by the old method, and dispensing entirely with the after draw-polishing to which

the grooves made by the old mode, and indeed by all other machines so far as is known, have to be submitted. The last invention of Mr. Buckland is one of his greatest and most useful -a machine for cutting the thread of the screw on the inside of the barrel and for milling the breech-screw, so as to produce a perfect interchange, every screw fitting any barrel to which it may be applied. To accomplish this has until recently been regarded as almost a mechanical impossibility, and was so pronounced by Mr. B. himself a few years ago. Within the year 1857, however, he produced at the first trial a very beautiful machine which does its work with a surprising degree of perfection. Mr. Buckland has never received from the government any other compensation than per diem wages.

BUCKLAND, WILLIAM, D. D., dean of Westminster, an English geologist, born at Axminster, Devonshire, in 1784, died Aug. 14, 1856. From Winchester college, he went in 1801 to Oxford university, and in 1808 was elected fellow of Corpus Christi college. In 1813 he was appointed reader in mineralogy, and in 1818 reader in geology. In this double capacity he greatly advanced practical scientific knowledge in the university. The singular clearness, graphic force, and full information of his lectures made the study of geology very popular. He may be said to have founded the geological museum in Oxford, sparing neither time, travel, nor expense, to supply it with specimens, which he classified, arranged, and described. This collection is more particularly rich in the remains of the larger fossil mammalia, and other animals from the caves in different parts of England and Germany. As early as 1813 he com-menced writing on his favorite subject, communicating to the transactions of the geological society his "Descriptive Notes" of 50 miles of a coast survey of Ireland, which he had made in company with the Rev. W. Conybeare, dean of Llandaff. In 1820 he delivered a lecture before the university, which was published as "Vindicias Geologica, or the Connexion of Geology with Religion explained." object was to show that science was not at variance with the Mosaic accounts of the creation and deluge. In 1823 he published Reliquia Diluviana, being the expansion of a paper he had communicated to the royal society (of which he was elected member in 1813), respecting the fossil remains of the elephant, hippopotamus, tiger, bear, hyena, and sixteen other animals, discovered in a cave at Kirkdale, Yorkshire, in 1821, for which paper the society voted him the Copley medal, the highest honor in their gift. His theory, put forth in this work, and not very well received by the scientific world, was, that beasts of prey which have long ceased to exist in Europe had resorted to the colite caves of Yorkshire, previous to the deluge; had dragged into these retreats, for food, such animals as then frequented the neighborhood; had been overtaken in these caves by the

deluge; and that the discovered bones were th remains of themselves and their prey. Mr. Buckland married Miss Mary Mo In 182 Abington, received the lucrative appoint of canon of Christ church, and to be degre of doctor of divinity. In 1887 Bridgewater treatise on "Geology wl bi alogy," which has always been the 1 st; of the series. He bestowed such unusuan upon this work, that it was repeatedly reten before it went into the compositors' he it was recopied as many as seventeen t and the manuscript which finally was prepa for the press was the fourth copy which Buckland had made with her own hands. Buckland's own chirography was so feeble, straggling, and indistinct, as to we a illegible. This was his last and greate but he contributed several valuable 1 the transactions of the geological so rs t cluding his two anniversary addresses as p dent, and his description of the south-wesern coal district of England. From its forms tion, he identified himself with the Britisl association for the advancement of science He was on habits of intimacy and correspond ence with most of the scientific men of hi time, and with many of the leading publi characters of England and the continent. I 1845, when the deanery of Westmi er be came vacant, by the elevation of Dr. (Wilberforce to the see of Oxford, he successes him as dean of Westminster, on the nominatio of Sir Robert Peel, with whom he was on th most friendly terms. On accepting this, he re linquished his canonry at Oxford, but ued professor of geology and mineralogy. moving to London, his first step was to secur public admission to Westminster abbey withou the fees which the dean and chapter had pre viously received; he was appointed trustee (the British museum, where his practical goo sense was found valuable; he actively employ ed himself in advancing the sanitary move ments in London; and he was mainly in mental in procuring the establishment or national museum of practical geology in L. don. In 1850 his career of activity and ness was arrested. His mind sank un pressure of its multifarious labors, and i (though in its gentlest form) rendered tirement necessary. In Islip, near Oxoca i college living which he long had held), he fou a retreat, and was there attended, during last 6 years of his life, by the untiring and fectionate care of his wife. Dr. Buckland pur lished several sermons, preached on various ocasions, all of them distinguished rather by god sense than scholastic divinity. In manners, I was simple and social. Ilis appearance we that of a country gentleman.—Francis Buci LAND, his eldest son, is author of a volume zoological researches, published in 1857. BUCKLE, HENRY THOMAS, an English scho

BUCKLE, HENRY THOMAS, an English scho ar, born at Lee, Nov. 24, 1822. His father we a wealthy merchant, and Mr. Buckle enjoye

mt only the advantages of an excellent education in Dr. James Thomas Holloway's school at Gordon house, Kentish Town, but also of having at his command an excellent and extensive library in his father's house. After leaving After leaving Dr. Holloway's school, he entered the paternal counting-house; but instead of giving his atten-tion to business, he devoted it to chess, and exhibited so much aptitude for this game that he gived the reputation of being one of the first players of England, if not of the world. His sther dying in 1840, leaving him an ample fortame he was enabled to indulge his taste for books, and devoted himself henceforward exderively to literary pursuits, for which he was by his secluded and studious habits better qual-ided than for more active occupations. The lat part of a work which has gained for him a assiderable reputation appeared in 1857, enti-and "History of Civilization in England," and is essupied exclusively by only a part of the introduction. It has been received with much favor by the most intelligent minds in England and in the United States, and created a desire for seeing the future volumes of the work, in which the author pledges himself to show that "the progress which Europe has made from berberism to civilization is entirely due to its intellectual activity." Since the issue of this 1st part, Mr. Buckle has delivered a brilliant lecture on woman, at the royal institution, which has attracted much attention. Mr. Buckle's eral place of residence is in Oxford terrace, Leadon. He lives with his mother, in the utmost retirement, spending his days and nights among books. He excels as a whist player not ses than as a chess player; but he leads the in of a recluse, and his mind seems concentrated upon his historical work.

BUCKLER, Johann, otherwise known as SCHINDERHANNES, and JEAN L'ÉCORCHEUR, a famous chief of brigands, born at Nastatten, in the duchy of Nassau, in 1779, guillotined at Mentz, Nov. 21, 1803. The son of poor parents, he had already distinguished himself by juvenile robberies, when he entered the service of the executioner of Barenbach. Being flogged for stealing cattle from his master, he way and adopted the profession of sheepteler. He was detected and imprisoned, effeeted his escape, and joined the chauffeurs, a band of robbers which, during the period of the french revolution, spread terror along both banks of the Rhine. Under the leadership of Rothbart, or the Red-Bearded, he was twice captured, and the audacity and address with which he made his escape from the prisons of Saarbrack and Simmern, in which he had been conand gave him great celebrity. He next united with the banditti of Peter the Black. At length was elected captain of a troop which declared were especially against the Jews, and became the terror of the whole region of the Rhine. The wealthy farmers used to purchase from him, at high prices, passports which would enahe them to traverse the country undisturbed.

He was taken prisoner again in 1799, but his escape was immediately accomplished, and with more vigor than before were travellers, returning from their annual markets, plundered by his band. He was tenderly beloved by Juliet Blasius, of Badenweiler, and a poem which he composed in her praise was a favorite song at fairs and religious festivals. His men, with their faces covered with black, made expeditions against the principal proprietors, and broke their furni-ture piecemeal till their extortions were granted. The vigorous police organization of Napoleon drove these robbers from the French bank of the Rhine. They were forced to penetrate into Germany, and after protracted efforts by civil officers, Buckler with his comrades was at length arrested by the bailiff of Limburg. He was taken successively to Frankfort and to Mentz, where he was condemned and executed, displaying an unfaltering intrepidity. He confessed his crimes; but as he had not committed murder nor robbed the poor, and had always displayed a romantic generosity, a pardon was to the last expected for him. During the period of his greatest power, he often rendered aid to the poor, and relieved in person the sufferings which were caused by his subordinates. His life was written by Sevelinges, in 2 vols., Paris, 1810.

BUCKMINSTER, JOSEPH, D. D., an American clergyman, born at Rutland, Mass., Oct. 8, 1751, died at Reedsborough, near Bennington, Vt., June 12, 1812. By early association and hereditary bias, he was destined for the clerical profession. In boyhood he showed unusual activity and ardor, both in athletic sports and mental pursuits, and at the age of 15 entered Yale college. He was known in college for the kindness and gravity of his character, and became an excellent Latin scholar, mastering the standard Roman authors so thoroughly, that he was able through life to make the happiest quotations from them. Upon attaining his bachelor's degree, he received, as one of the 8 best scholars, the free enjoyment of an added 8 years at the institution, upon the funds of the Berkeley scholarship, and "from a high spirit-uality of feeling," assiduously devoted this period to theological studies. Among his fellow-students at Yale and life-long friends were those whose names earliest appear in the brief roll of American authors-Barlow, Trumbull, and Dwight. When the period of his scholarship terminated he became a tutor in the college, and fulfilled the duties of that office for 4 years; thus passing 11 years of his life among the halls and walks of his alma mater. .During his residence there he passed through a great moral crisis, the result of his sensitive temperament and profound religious inquiries, and after experiencing much depression and mental conflict, and seeking light from a prayerful investigation of the Scriptures, he was enabled conscientiously to define his position as a religious believer, and, in a form of self-consecration harmonizing with the belief of the New England Calvinists, to devote himself to

the work of the ministry. In 1779 he was ordained pastor of the North church of Portsmouth, N. H., whence his 2 predecessors had been called respectively to the presidencies of Yale and Harvard colleges. The friendship of a remarkably gifted and cordial fraternity of clergymen, the liberal disposition of his people, their comparative prosperity and fine social culture, rendered his position as agreeable as it was influential. He soon after married Sarah Stevens, the carefully educated daughter of the Rev. Dr. Stevens, of Kittery Point. The period of his ministry has been called a great transition era in New England history, both civil and ecclesiastic. While there were yet few newspapers, the clergy were the oracles of the scattered communities upon all subjects of public interest, and were expected to preach upon important political events. Dr. Buck-minster cherished an intense admiration of the leaders of the federal party, which so far tinetured his occasional homilies as sometimes, and particularly in one instance, to call forth animadversions from those of a different political creed. With this exception, his clerical course was singularly calm and prosperous. He was especially remarkable for the fervor of his devotional exercises, and the general effect of his preaching was to produce emotion rather than conviction. Among the memorable traits and incidents of his life and character, were his simple tastes and habits, his favorite exercise in the garden in summer and in wood-chopping in winter, his careful preparation of sermons, his attention to the aged and poor, his consolutions of the distressed, his love of sacred music, in which he excelled, his paternal care and sympathy at home, and his vivid interest in the controversy which, during his later years, made so wide a division between the conservative and liberal Congregationalists. The change of views arrived at and maintained by his idolized and gifted son, Joseph Stevens Buckminster, the discussions between the two, and the struggle between love and duty, self-respect and independence of mind, so obvious throughout, form one of the most interesting features in the memoirs of both. Although differing in creed, and conscientiously tenacious of his own opinions, he preached his son's ordination sermon. When the latter died in the morning of his days, the prophetic heart of the dying parent realized the event before the news arrived, and he himself expired a short time after his son's decease. From the time of the death of his first wife, followed as it was by the bereavement of another wife and of many children, Dr. Buckminster suffered from occasional liability to nervous depression; yet the stringent duties of his profession, his vigorous maturity of mind and body, the society and sympathy of his accomplished son and daughters, were rare ameliorations to the sorrows of his life. He died while on a journey for his health. One of his daughters has published an interesting biogra-phy of her father and brother: "Memoirs of the

Rev. Joseph Buckminster, D. D., and of the Rev. Joseph Stevens Buckminster," Buckminster Lee, Boston, 1851. -STEVENS, eldest son of the preceding, ar ican clergyman, born at Portsmouth, N. 26, 1784, died in Boston, Mass., June Few men, whose professional career was have left so permanent and endeared a u As a child his personal beauty, elastic t ment, instinctively religious spirit, knowledge, and great aptitude in its acq made him the idol of his home and neight His first instruction was parental, as the parsonage he went, in his 11th Exeter academy, where he was soon guished as a scholar, and for moral ex and personal fascination. The letters ac to him by his father at this time, offer a illustration of the economies, strict and minute supervision then character domestic training in New England. the prescribed course at Exeter, he re avidity the standard English works in literature. Entering Harvard college he maintained his reputation for scho was admired for his thoughtfulness and the graces of his manner and the winnin ness of his disposition, became the orator of the clubs and reasoner of the ing societies, and "as a belles-lettres a says one of his classmates, "he was uneq He received the honor of the English on graduating, and the fragments prese this juvenile performance amply just traditional charm of his mind and exp As assistant in Exeter academy, after college, he was one of the teachers of Webster. At this time he pursued range of general reading, and after begin preparation for the ministry, left the a to reside with a relative in summer at W and in winter in Boston, while purst theological studies. After he had prese first sermon, he was invited to supp pulpit of the Brattle-street church in and in 1804 that society unanimously him their pastor. He wanted a few me 21 years of age when he thus became the ter of one of the largest and most int religious societies in New England. He rose to the level of the highest expects his friends; his church became a shrine lovers of pure and devout eloquence, parsonage the favorite resort of the mor lectual society of Boston. The social g the man were indissolubly blended w sacred gifts of the pulpit orator, and th ality and warmth of his manners, a knowledge and wit which marked his co tion, made his home delightful to his fri the intervals of severe professional Although the charms of his voice and pressiveness of his countenance and a greatly enhanced the immediate effect of course, yet those of his sermons whice collected and published after his decer

remarkance for purity of thought and finish of gria and in some instances unite the best mis of the palmy days of French pulpit elogence to those of the standard old English times. The claims on his strength, so faithfilly met, caused a failure of health, which indeced him to seek rest and a change of air and mme in a voyage to Europe. In England he mjoyed the companionship of Dr. Rees, Granville Sharp, Wilberforce, and especially of Dr. Ission of Norwich, and Gilbert Wakefield; in Switzerland he met Benjamin Constant, Madame de Stati, and Count Rumford; and visited the scene of the then recent destructive avalanche which everwhelmed Goldau, of which he wrote an admirable description. He resided several meths in Paris, and his letters, written during the whole period of his European travels, indicate a strong sympathy with literature and its modistions; indeed, the scholar and man of dignt tastes were always coexistent in him with the divine. While in England he purcheed many works for the Boston Athenseum, and on his return was an active member of the Anthology club, famous in the literary annals of that metropolis for the many gifted men which it included, and for having given birth to one of the first American purely literary periodicals. His love of literature and high estimate of its moral and social function were eloently manifested in an oration which he delivered before the Phi Beta Kappa society of Harvard university, in 1809, on the "Dangers and Duties of Men of Letters." At the period of his last illness, he was deeply engaged in German studies, then just beginning to attract the attention of theologians in this country. la 1808 he superintended the republication of Grisbach's Greek Testament, containing the most important various readings, and was aftervard appointed first lecturer on Biblical critician in the university at Cambridge. Meantime his parochial and pulpit labors, and the correspondence and conversation growing out of the earnest religious controversy of the time and community, fully and fruitfully occupied him. His portrait by Stuart gives a clear impression of the intellectual grace of his counteand expression, and the memoir by his inter keeps fresh the tradition of his attractive whenes of sermons, and the monument at Most Auburn, consecrated to his memory a quarter of a century after his decease. After the onerous daties of election week he sank under repeated attacks of epilepsy. The feeling oc-casioned in Boston by his death did not soon pass away, and his surviving associates always remembered and spoke of him with deep

BUCKS, a county of Pennsylvania, bordering on New Jersey, and bounded N. E. by Delaware fiver, which is here navigable by steamboats. This county possesses valuable quarries of limesome and sandstone; and iron, plumbago, tita-aim, and zircon are found in some localities.

The northern part is hilly; the remainder of the surface is moderately uneven; the whole is in a high state of cultivation. The inhabitants are generally farmers or market gardeners, who supply Philadelphia with grain, fruit, meat, and dairy produce. The productions in 1850 were 1,157,781 bushels of Indian corn, 1,168,710 of oats, 246,586 of potatoes, 95,842 tons of hay, and 2,836,182 lbs. of butter. There were 98 flour and grist mills, 50 saw mills, 23 tanneries, and a vast number of factories of almost every kind. The Philadelphia and Trenton railroad passes through the south-eastern part. This was one of the 8 original counties founded by William Penn in 1682. It was named from the county of Bucks in England. Area 600 sq. m.; pop. in 1850, 56,091; capital, Doylestown. BUCKSPORT, a commercial, lumbering, and

manufacturing village in Hancock co., Maine, on the east bank of the Penobscot, just above Orphan island and the narrows, 16 miles S. of Bangor; pop. in 1850, 3,318. During the war of 1812-'15 it was captured by the English, who sailed up the river as far as this village. A large, substantial fort, built 1846-'50, on the opposite bank, at a bend of the river, now commands the narrows and the river in both directions. The village is regularly laid out on a rising slope. Neat and tasteful houses, with overshadowing trees, give it a very pretty appearance from the An excellent academy and good schools are found here. As the Penobscot seldom freezes at this point, Bucksport becomes the winter harbor for Bangor vessels, as well as for its own commerce, which employs 100 sail, engaged in the lumber, coal, and fishing trade. A ferry connects it with Frankfort.

BUCKSTONE, John Baldwin, an English actor and playwright, born in the isle of Wight, in 1800. Bred to the law, he deserted the solicitor's office for the stage in 1824. He made his debut in tragedy. The effect of his performance induced him to try low comedy, in which he soon disclosed a rich vein of talent. He was first distinguished at the Surrey theatre, London, from whence he was transferred to the boards of the Adelphi. In 1840 he went to the Haymarket. In 1842 he visited the United States. In 1852 he became lessee of the Haymarket theatre. As an actor he is exaggerated without being vulgar, his ripe humor being under the control of a keen intelligence and nice taste. His fault is an extreme mannerism of utterance. As a playwright, he has been very successful. He wrote "Victorine," the "Wreck Ashore," the "Dream at Sea," "Poor Jack," "Jack Sheppard," "Agnes de Vere," "Green Bushes," and upward of 80 vere," and forces, mostly adapted from melodramas and farces, mostly adapted from the French. His comedies, "Married Life" and "Single Life," are of less merit.

BUCKWHEAT (polygonum fagopyrum, Linn.), a species of grain supposed to be a native of Asia, and called blé Sarrasin, or Saracen wheat, by the French, after the Saracens or Moors, who are believed to have introduced it

into Spain. It thrives on poor soils, comes rapidly to maturity, and is most frequently planted in tracts that are not rich enough to support other crops. It is extremely sensitive to cold, being destroyed by the least frost, but it may be planted so late and reaped so early as to incur no danger from that source. Its flowering season continues for a long time, so that it is impossible for all the seeds to be in perfection when it is reaped, and the farmer must decide by careful observation at what period there is the greatest quantity of ripe seeds. Buckwheat does not exhaust the soil, and by its rapid growth and its shade it stifles weeds, prevents their going to seed, and leaves the field clean for the next year. It is sometimes ploughed into the ground in a green state for The seeds of buckwheat furnish a white flour, from which a popular gruel is made in Germany and Poland, and breakfast cakes in England and America. Cakes, and a dark heavy bread, are made from it also in the provinces of France, especially in Brittany. Its flowers secrete a large amount of honey, and are, therefore, always covered with bees; and in the middle United States it is often cultivated for their food. The grain is superior to oats as nutriment for horses and poultry, and is especially efficacious in making the latter lay eggs. The green plant is said to greatly increase the milk of cows, but according to Thaer and Hauter, it produces cramps and a sort of intoxication in swine and slieep which feed largely upon it.—There is another kind of buckwheat distinguished from the preceding by the sharper angles of its seeds, and by its tougher stocks. It is earlier and taller, less sensitive to cold, and produces grain in larger quantity, but of an inferior and bitter quality. It was introduced from Tartary into Russia in the beginning of the 18th century, and it has thence been dispersed all over Europe. Hence its name of Siberian buckwheat, or polygonum Tartaricum.

BUCOLICS, a style of poetry introduced by the Greeks, more especially by the Sicilians, descriptive of the delights of the primitive rural life of the herdsmen and mountain shepherds, whose rugged and picturesque days were, for the most part, spent among the forest glades and upper pastures of the mountains, which alone, under the burning suns and in the arid climates of Greece and southern Italy, could afford verdure, shade, or water during the in-tense summer heats. Those poems in Greek, the most beautiful of which are by Theocritus and Moschus, both Sicilians, are generally composed in hexameter verse, and always in the Doric dialect, the life of the woods and hills belonging especially to the Dorian, as did that of the city, with its theatres, baths, and academies, to the Ionian race. Sometimes they relate purely to the topics to which they assume to belong; sometimes they strike a much higher strain, as that of Theocritus, which describes the killing of the Nemean lion by the

Dorio hero, Hercules, or the beautiful elegy of Moschus on the death of Bion. The charac istics of these Greek idyls, for so they wer called by the writers, are a peculiar racy ness, belonging to them alone; a love of 1 and an appreciation of its sounds and such as are found in the writers of no vun countries, unless it be some of the earlier En lish poets, from the days of Chaucer down t those of the Elizabethan era, whom the old be colic poets of Greece also strikingly resemble i the delicacy of the thoughts and the richner and elegance of the fancy which gleam from the shadows of a rustic and antique dial and diction, like glimpses of evening sun kindling the dewy glades into emeralds and monds, among the rugged and rusty trunks the pine forests, in whose whispered music the took delight. The bucolies of Virgil, the charming poems, are, except that strange our the 4th, entitled Pollio, and seeming to be par aphrased from the prophecies of Isaiah. literal imitations of the Greek idyls; el enough done, it is true, but entirely ing the touch of nature which gives the charm to the true Greek bucolies. The only Latin writer who had an idea of rural beauty or of the charm of rustic life and enjoyment, i Catullus, who, though his idyls do not profes directly to be bucolical or pastoral, wrote som poems, such as his "Nuptials of Peleus an Thetis," his "Atys," and his "Sirmis," whic are as distinctly bucolical as if they had bee written under the auspices of Pan, in the glade of Erymanthus, or among the hill pastures o Arcadia.

BUD (Gr. quror, from que, to grow), in bot any, an organ which contains within itself th rudiments of stems, branches, leaves, and flow ers. It is found either at the apex of a sten or at the axil of a leaf, and is thus eithe terminal or lateral. Regarded externally, it an ovoidal, conical, or spherical collection a scales, or rudimentary leaves, arranged on over the other in an imbricated manner. I cold climates a downy or resinous coating i often added to give still further protectio from frost to the organs within; but in warr climates, where this protection is not needed the leaves in the imbrication are both l compact and less numerous. In the centre c this enclosure is a growing vital point, a parti of delicate cellular matter, continuous with to cellular centre of the main stem. A bud is th first stage in the plan of vegetation, and its de velopment constitutes the whole plant. embryo of the seed is but a primary ster crowned with a bud. This stein elongate through its whole length in growing, and raise the budding apex above the surface of the soil where its cotyledons expand into leaves. Th plumule, or bud of the embryo, then begin its growth from the joint of these leaves, and carries up the second leaf or pair of leav to some distance above the first, and thus leaf after leaf, or pair after pair, the whole here BUDA 59

g tree is built up, a bud or undeveloped por-This bud tion always remaining at the apex. is a miniature of the whole tree. Its scales have the same relative situation as the proper heres of the species, and will themselves in the next sesson become leaves as the germ of the hel accends above them. In this way, by the repeated development of the terminal bud in a direct line, the main stem is produced.— The development of the axillary or lateral buds gives rise to branches. At the axil of every of there appear, either perfectly or imperfeetly, one or more buds. Under favorable circumstances these buds grow and form branches precisely as the original stem is formed. The branches in turn have buds at the arils of their leaves, and thus branches of a address are formed, and so on indefinitely, the skillnate ramifications being termed branchhts. Some plants, as the palm, put forth no sailary bods; many during their first year are natricted to developing their main stem, but absward the growth of the terminal and axillary bads goes on together. If every bud came to maturity, every tree would have perfect symmetry, either with alternate or opposite branches. Where the structure is opposite, there would be 3 buds near the apex of every branch, one terminal and 2 in the axils of the marest pair of leaves; it is rare, however, that one of the 8 does not fail. This failure is in some species regular, as in the horse chestnut, where the lateral ones are checked, and in the the stem annually bi-forked. The failure is, however, in most cases as capricious as the phenomena of climate, soil, and the weather. In a luxurious soil, and in some species surcharged with sap, the predestined symmetry of the plant is interfered with not only by failwe but by excess, a bud sometimes bursting forth from other parts than the axils of leaves, or 2 or 3 buds sometimes issuing from a single wil.—The flower, like the branch, is evolved from a bud, and its parts adhere to the law of arrangement which has controlled the whole development of the plant. The flower-buds and hef-bads are identical as to situation, and the had of the branch passes by regular gradations into the sepal, petal, and stamen of the flower. The organ which has produced the whole plant from the embryo of the seed is not supplanted, me is plan changed, in producing the final wak of inforescence and fructification; but for the new end now to be accomplished it receives a more delicate character.

BUDA, or OFEN, a city on the west bank of the Dannba, formerly the capital of Hungary, and now that of the circle of Pesth; pop. of the town and its 7 suburbs, including that of Alt Ofen, which was annexed in 1850, 45,653, exclusive of the garrison and the students. It is miss & E., and from Belgrade 200 miles N. W. It was formerly connected with the city of Pesth, which lies on the opposite side of the river, by a

bridge of boats, and since 1849 by a suspension bridge 1,250 feet long; a tunnel to connect the bridge with the fortress has been in course of construction since 1852. Buda is about 9 miles in circuit, and built around the Schlossberg, an isolated and shelving rock. Its central and highest part, called the fortress, is the most regular portion of the town, and contains many fine buildings and squares. This fortress is surrounded by walls, from which the several suburbs extend toward the river. The principal edifices of the city are the royal palace, a quadrangular structure 564 feet in length, and containing 208 apartments; the church of the ascension of the virgin, and the garrison church, both Gothic structures; the arsenal, the state palace, and the town hall. Buda contains 12 Roman Catholic churches, a Greek church, and a synagogue, several monasteries and convents, a theatre, and many important military, educational, and benevolent institutions. There are several publishing houses and 8 journals established here. The observatory, with the printing establishment of the university of Pesth, is built upon an eminence to the south of the town, 516 feet above the level of the Mediterranean, and no expense has been spared to furnish it with the best instruments. There are in various parts of the suburbs sulphurous hot springs, and relics remain of baths constructed here by the Romans and Turks, the former tenants of the place. The principal trade of the town is in the wines (chiefly red wines, resembling those of Burgundy) which are produced from the vineyards upon the neighboring heights, to the amount, it is computed, of 4,500,000 gallons annually. There are also cannon founderies, and a few manufactures of silk, velvet, cottons, woollens, and leather. The boats of the Danube steamboat navigation company are built here, giving employment to about 600 persons. Buda is the usual residence of the governor of Hungary, and of the public authorities.—It has been thought that this city occupies the site of the old Aquincum mentioned in the "Itinerary" of Antoninus. During the Hungarian monarchy, Buda was the residence of its kings, by whom it was enlarged and adorned, especially by Matthias the Great. It was taken by the Turks under Solyman the Magnificent in 1526, but was recovered the next year. It fell again into the hands of the Turks in 1529, and remained in their possession till 1686, when it was finally recovered by Charles of Lorraine, and in 1784 was again made the seat of government. Buda has been beleaguered not less than 20 times in the course of her history. The last siege took place in May, 1849, when the Hungarian army under Görgey had driven back the Austrian troops to the western frontier of the kingdom. Two plans were discussed as to further operations: first, to follow up the advantages gained, by a vigorous pursuit of the enemy on his own ground, to disperse his forces before the Russians. then marching on Hungary, could arrive, and to attempt to revolutionize Vienna; or, to

remain on the defensive in front of Comorn, and to detach a strong corps for the siege of Buda, where the Austrians on their retreat had left a garrison. Görgey maintains that this latter plan was insisted on by Kossuth and Klapka; but Klapka professes to know nothing of Kossuth having sent such an order, and denies that he himself ever advised this step. From a comparison of Gorgey's and Klapka's writings we must, however, confess that there still remains considerable doubt as to who is to be blamed for the march on Buda, and that the evidence adduced by Klapka is by no means conclusive. Görgey also says that his resolution was further determined by the total want of field-gun ammunition and other stores, and by his own conviction that the army would refuse to pass the frontier. At all events, all offensive movements were arrested, and Görgey marched with 30,000 men to Buda. By this move the last chance of saving Hungary was thrown away. The Austrians were allowed to recover from their defeats, to reorganize their forces, and 6 weeks afterward, when the Russians appeared on the borders of Hungary, reserve corps were still forming. Thus, the siege of Buda forms the turning point of the Hungarian war of 1848—49, and if there ever really were treasonable relations between Görgey and the Austrians, they must have taken place about this time.—The fortress of Buda was but a faint remnant of that ancient stronghold of the Turks, in which they so often had repulsed all attacks of the Hungarian and imperial armies. The ditches and glacis were levelled; there remained but the main ramparts, a work of considerable height, faced with masonry. It formed in its general outline an oblong square, the sides of which were more or less irregularly broken so as to admit of a pretty efficient flanking fire. An intrenchment of recent construction led down from the eastern front to the Danube, and protected the waterworks supplying the fortress with water. The garrison consisted of 4 battalions, about a company of sappers, and the necessary allotment of gunners, under Major-Gen. Hentzi, a brave and resolute officer. Seventy-five guns were mounted on the ramparts. On May 4, after having effected the investment of the place, and after a short cannonade from heavy field guns, Gorgey summoned the garrison to surrender. This being refused, he ordered Kmety to assail the waterworks; under the protection of the fire of all disposable guns, his column advanced, but the artillery of the intrenchment, enfilading its line of march, soon drove it back. It was thus proved that an attack by main force would never carry the place, and that an artillery attack was indispensable in order first to form a practicable breach. But there were no guns at hand heavier than 12pounders, and even for these the ammunition was deficient. After some time, however, 4 24-pounders and 1 18-pounder, and subsequently

6 mortars, arrived from Comorn. A breach battery was constructed on a height 500 yasfrom the N. W. angle of the rampart, and be its fire, May 15. Previous to that day, Hen had bombarded the town of Pesth without any provocation, or without the chance of de riving any advantage from this produced on the 16th the breach was opened, and scarcely practicable; however, Gorgey orders the assault for the following night, one colum to assault the breach, 2 others to escalade walls, and a 4th, under Kmety, to take waterworks. The assault was everywhere successful. The artillery attack was resum-While the breaching battery completed a work, the palisadings around the waterwo were shattered by 12-pounders, and the as terior of the place was bombarded. False at tacks were made every night to alarm garrison. Late on the evening of the another assault was prepared. The 4 co and their objects of attack remained the and before daybreak on the 21st they advance on the fortress. After a desperate during which Hentzi himself led the acreuthe breach and fell mortally wounded, t breach was carried by the 47th Honved but talion, followed by the 34th, while Kmet; stormed the waterworks, and the troops of th 8d army corps under Knezich escaladed 1 walls near the Vienna gate. A severe fight the interior of the fortress ensued, but soon to garrison surrendered. Of 3,500 men, abou 1,000 were killed, the rest were made prisonen The Hungarians lost 600 men during the siego

BUDAYOON, or Budaon, a district of Rehileund, British India, in the N. W. province bounded N. by Moradabad, N. E. by Bareily S. E. by Shahjehanpoor, S. by Furruckabad an Minpooree, and W. by Alighur and Boolund shahur. It lies between lat. 27° 88′ and 28° 28′ N., long. 78° 21′ and 79° 85′ E.; area, 2.868 at miles; pop. 1,019,161, of whom 877,509 ar Hindoon. The country is low, level, generall fertile, and well watered, the Ganges flowin through its S. W. part, the Ramgunga through its E. part, and the rest of the district beautifered by the Muhawa, and the Sote Yarwuffadar.—The chief town of this district of the same name, has a population of 21,5° It was occupied by the mutineers, and body of 'liberated prisoners from Bareily June 1, 1857. The Europeans escaped be flight. Gen. Whitelock marched again town and captured it, April 19, 1858, and a engagement in which the rebels lost 500 me and 4 guns. On the 30th of the same month the sepoys were again defeated about 10 mile from here, by a force under Gen. Pennyfeather The rebels were entirely subdued on May 7 1858.

BUDDE (BUDD. EUS), JOHANN FRANZ I German theologian, born at Anklam, June 1667, died at Jena, Nov. 19, 1729. He lectures upon theology and philosophy successively a Wittenberg, Halle, and Jena. In his wri which are very numerous, he often sought to neliste between and harmonize opposite views. Among his principal works are, Historia Juris Vetera, Institutiones Theologiae moralis, and lastitutiones Theologiae dogmatica.

BUDDEEABAD, a strong fortress of Afghanissa, memorable as the place of imprisonment of the British captives spared from the mas-

mores of 1841.

BUDDHA-GAYA, a ruined city of Bahar, much resorted to by pilgrims. It is situated near Gaya, 55 m. S. of Patna, and contains memores remains of temples and images.
BUDDHISM AND BUDDHA, an Asiatic reli-

gion and its founder. Buddha (to know, intelligence) is the generic name for a deified teacher of the Banddhas, whom we call Buddhists. These held that innumerable Buddhas have appeared to are the world, among them one in the present priod also known as Sakyamuni, or Saint Sakya, who is believed by some to have been the 9th inemation of Vishnu; by others the son of the mon. and regent of the planet Mercury. He was s reformer of Brahminism, introducing a simple creed, and substituting a mild and humane code a morality for its cruel laws and usages. His history is to a great extent legendary, and is divided into 12 sections, viz.: 1. While in the th heaven he determines to save the world, and chooses to be born as the son of Suddhodam, king of Kapilavastu and of Māyā, yet a vigin; both of the Sākya genus of the Kshat-tiya caste, and a branch of the Ikshvākus who were of the race of the sun, kings of Ayodhya (now Oude) or even descended from Mahā Samata, the first of all kings of the present peried. 2. He descends from heaven as a white dephant; is conceived as a 5 colored ray of light. 8. He is born amid great miracles, through the right side, and as soon as born most solemnly proclaims his mission. 4. He is namel Servirthesiddha (sarra, all, artha, wish, re-quet, siddha, fulfilment); his mother dies on the 7th day after his birth; he is cared for by ber sister, Prajapati Gautami (praja, world, peole, pati, master, gautama, sage), of the brahminic, Gotama genus; hence he is called Gantama. 5. He chooses Gopā, also a Sūkya, in his bride, and obtains her after having shown in a public game, and his great baring and skill in arts. 6. After meditating a the vanity of enjoyments, he leaves his fahar's house and becomes a most austere ascetic and hermit. 7. He performs the most rigid pensages, goes to the Bodhimanda or throne of intelligence at Gaya; sits under the Bodhidruma, or few religiosa (banian), where every Bodhisattva (intelligence of truth) becomes a Buddha 8. He is tempted by Māra (mri, to die), the god of love, sin, and death; but withstands his exchangements and terrors. 9. He recollects all his previous births and those of all beings, atthis thus to Bodhi (intelligence) and shines with sethe Buddha, "the awakened, intelligent, howing" (Chinese Fo thu or Fo, also translated To the enlightened; Thibetan, Sange rgyas;

Mongol, Burchan, Japanese Budedo; the number of his names is 12,000 in Ceylon, and in a Thibetan tract 5,453). All beings become aware of his arrival, and 2 merchants from far-off lands are the first mortals who see him, offering him honey, milk, &c. 10. He "turns the wheel of faith," or becomes a teacher, "unfurls the viotorious banner of the good law," and proceeds to Varanasi, now Benares, on the Ganges; there he finds his 5 former pupils, and though he preaches in the Maghadi language he is understood by all hearers of different tongues. Many other fanciful stories, and many philosophic speculations have been interpolated amid the facts in the history of Buddha, especially in the 45 years of his sacerdotal functions. The scene of his priestly life is placed by some in the Dec-can, by others in Ceylon, and by others in the Punjaub, and even beyond the Indus; although, as a matter of fact, it seems to have been restricted within Onde, south and north Bahar, extending probably to the boundary of Bengal and into the Doab and Rohilcund. An enormous quantity of sculptures not far from modern Gāya, and other monuments at and near Patna, bear witness to the reality of the reformer's existence. When he appears to discharge his beneficent mission, men and women of all classes and ages, rich and poor, sick and well, flock around him. Most of the rulers become converts together with their subjects. Sravasti (the city of hearing), on the northern bank of the Ganges, became a rival of Gaya. There Anathapindika built a magnificent monastery, from which most of the Buddhist holy books are dated. Here Sakyamuni appoints his pupils as apostles, and performs many miracles. At first he is adverse to the admission of women to ecclesiastical life, but afterward chooses some as his agents. He is also named Sramana (srama, to be wearied), or the un-changeable, and is soon opposed by Brahmins and others, especially for admitting the impure and outcast to the privileges of religious asceticism. He humbles the 6 Tirthakas, or sectarian philosophers, and visitors of sacred ponds, whose lucrative occupation is ruined by the new doctrine. Calumny, conspiracies, and snares, all tricks of Mara, are unavailing against him. 11. His native city with all his kindred are most cruelly destroyed, by a king of Kosala, shortly before his death in the 80th year of his age. This causes great convulsions of nature. King Asoka raised on the spot where he died a stupa or mound with a column to his memory. 12. When his body is about to be burnt, the pile cannot be kindled; but after Kūsyapa has honored the feet of the dead, the "flame of contemplation" breaks out of the breast and con-sumes the corpse. The pearly, heaven-scented pieces of his bones, which have defied the fire, almost cause a war for their possession, but are at last divided among 7 competitors, who erect stupas over them.—Even if an actual personal existence be denied to Sākyamuni, the religious reform itself must be admitted as a fact.

Among the Buddhistic nations there is a difference of about 2,000 years as to the date of his death. As the skilfully contrived story of 38 Buddhist patriarchs in uninterrupted succession is now exploded, we prefer the Cingalese date of 543 B.C. Brahminism had become intoler-Sakyamuni rejects the Brahma, the authority of the Vedas, the sacrifices and all Brahminic rites. Even popular Buddhism in adopting the Brahminic gods degrades them below Buddha, even below the Arhats (arha, to worship) or venerable priests, thus raising men above the gods. Buddha, a man, and not an incarnation of a higher being, is self-perfected. In the Vedas also, holiness, piety, meditation, and wisdom are mightier than all gods. Indian virtue, more passive than active, consists in the taming of sensuality, of one's own will, in sympathy with all beings, in self-sacrifice. As soon as sin is uprooted, infinite knowledge opens.-Originally, Buddhism was simple, ethical, and rational; and hence hostile to mythology, scholasticism, ceremonies, and priestcraft. It was benevolent and humane in the highest degree. It improved upon the Sankhya philosophy, and rendered it popular and practical. It called all men, without any distinction of quality or position, to its fold, opening to all the way of salvation, which it teaches to be attainable by purity of conduct. Castes, however, were not directly abolished, but ignored, so that they exist to this day in Ceylon, the great southern stronghold of Buddhism. "I am a Bhikshu" (beggar), says Sakyamuni, without Brahminic pride. "There is but one law for all: severe punishment for crime, and great reward for virtue." "My law is one of grace for all; like heaven affording room for men and women, for boys and girls, for rich and poor." "It is difficult to be rich and learn the way." In a legend all lamps kindled in honor of Buddha ceased burning, except one offered by a poor woman. Ananda, his favorite disciple, drinks water drawn from a well by a Chandali. Sakyamuni spoke to the people in parables under the free sky; united the scattered anchorets into communities, orders, and monasteries, some for men, some for women; also allowing persons of both sexes to be lay members without vowing chastity and mendicity. The clergy were made the foundation of Buddhistic society, whereas in other creeds the laity are the basis on which the hierarchy reposes.—The first period of Buddhism, from Sakyamuni to its recognition as a sort of state religion in the great Prachina or Prasian empire and beyond Hindostan, comprehends the fixation of the dogmas, its first schisms, and occumenic councils. Kasyapa, the principal disciple of Sakyamuni, held the 1st council of 500 Arhats at Rajagriha, establishing the Vinaya (ci, before; ni, to conduct) or discipline based upon the Sütras (shri, to sew, string) or apophthegms and sermons of Buddha. Disorders in the great monastery at Vaisali called for a 2d council in that city during the reign of the king Kalasoka, a great protector

of the faith, about 100 years demise. The history of Budunum time is enveloped in the greatest a Among about 18 sects 2 are prominthe Vaibhūshika (caibhā, division) or di mists, with many subdivisions; the Sant tika (sutra and antika, near), or close obsert of the original maxims.—Alexander's invasional maxims.—Alexander's invasional maxims.—Alexander's invasional maxims.—Alexander's invasional maxims.—Alexander's invasional maxims. of the Punjaub gave a great impulse to the sp of Buddhism. The Nanda dynasty of M. south Bahar was overthrown by the mirace Chandragupta, or Sandrakottus, who freed to Punjaub from Macedonian rule, received thenes at his court in Pataliputra, and all India under his sceptre. Through his o as a Soodra, and through the invasion in qu tion, he broke the power of the Brahmu His grandson Dharmasoka, the greatest king of the Maurja dynasty, extended the empire. being miraculously converted, became fro cruel tyrant the most pious observer and most zealous propagator of Buddhism. Un the name of Piyadasi (love-gifted, pious) m published most humane edicts, many of wh are found engraved on columns at Delhi aus Allahabad, and on rocks near Peshawer Guzerat, Orissa, &c., not in Sanscrit, the l guage of the Brahmins, but in Prakrit popular dialects. These edicts inculcate the practice of virtues, order the construction or roads and hospitals, and even abolish capi punishment. The 8d great council was held a the command of Piyadasi, at Pataliputra, when 1,000 Arhats tried to cure the great anarch caused in the church by sectarians, and and licentious monks. At the conclu the council, an earthquake is said to have proved its decrees. The most probable date u this council is 218 after Sakyamuni's d (325 B. C.) Scarcely any book which for the word of Buddha is prior to this country in which the decrees of the preceding counc were modified; indeed, it may be doubten whether any such book reaches even back. The creed was introduced into in the first year after the 3d council, where a was preserved for a century merely by oral tra dition. In less trustworthy quarters than th Cingalese there are manifest contradicti the Nepaulese believing that Sakyamuni wron 9 books, while the Chinese derive the canor from the first council, and the Thibetans that the Tripitaka (3 baskets) were writ centuries after the 8d council. In pre the canon, Sanscrit was probably used and with other vernacular tongues by the ciples. The books of Ceylon, Burmah, are translated from the Pali, a form of Wri of the Magadhi, a dialect of the Sanscrit. code of the 4th council, held in Kasmira, is it Sanscrit. Unlike the Brahmins, who though barbarians unworthy of their holy religion, th Sthaviras or elders of the 3d council had sen out apostles to preach in foreign lands, wh converted the Nagas (snake worshippers), and other idolatrous tribes of Cashmere; the Hims

m (mow mountain), lower Cabool, Gandhara mer Candahar, Yavana (from Impia, probably Batris, Ionia, and the satrapies of Alexander), now Caffristan, also received apostles. The Deccan and even Pegu, and Burman, were not forgotten, although the creed was carried this much later from Ceylon. Buddhism carried the elements of Indian civilization to many a savage tribe; broke up many a cruel cutom and became a blessing to the greater portion of Asia. But in time the great Buddhstic body was split, by its own extension, into a southern church, whose chief seat is in Deva lake the divine island, or Ceylon, where it he been least altered from its ancient condition, and whence, during more than 5 centuries, it was propagated, even to further India; and a m church, divided into many important backs, owing to the great number of nations profess it; the Nepaulese branch being less evergent from the ancient faith, than those of Tertary, Mongolia, Thibet, China, and Japan.la Hisdostan, the primitive character of Buddhim was greatly impaired by its long and bloody contest, as well as its mixture, with Brahminism, and especially with the sanguimry tenets of Sivaism; and, it finally fermented and degenerated into a medley of incongruous meds. About the beginning of our era a new school or sect, called Mahayana (great passage), was aided to the older Hinayana (little passage) by Nagarjuna, a celebrated Sthavira; and anther in the 6th century of our era, called Yogachara (1995a, junction and magic, chara, to go), er Tantra, a sort of Sivaitic mysticism, by the Riksbu Asanga. Even in Ceylon heretical tensa were inserted in the code of the Tripitaka by the learned Buddha Ghoska at the commencesest of the 5th Christian century.—Among the Greek and Roman writers who have more or imperfectly dwelt upon the men and af-tion of India, Herodotus (Book i. and iv.) ames the Budinoi; Megasthenes, though reming at Palibothra, does not speak of the Beddhists, although (about 800 B. C.) he gives aful account of the 5 rivers of Pentapotamia, midescribes Indian manners; Strabo speaks of 1 religious systems in India (Book xv. of is geography) that of Brahma, and that of the Garmans (apparently the Sarmanes, a sort d mint, probably Buddhists); Arrian men-■ a Boudyas as 8d king of India; Clement of Almandria speaks of a deified Butta; Vic-torium and St. Jerome, of a Buddhas; Cedre-ma and Suidas, of Budas. Clement and Jerome call that personage a gymnosophist, meaning probably the Jaina sect which worshipped seked idols, and whose chief priests were acked. - The Jesuits have endeavored to prove Baddhism to be of Nestorian origin; the Nestorians sought the protection of the Semanidse in Persia, and came into cenhad Asia after their expulsion from the Bymatine empire, as late as the 5th Christian centery. It is more probable that Buddhism and an influence on western creeds, as, for in-

stance, on the Gnostics.—Buddhism was introduced into China by 2 ways, namely: in the south by sea, 65 B. C., and in the north through Khoten, over the great wall into Shensi, in the 5th century. From Corea, where it existed about A. D. 870, it was brought into Japan about 550 to the court of the Dairi. Some writers assert that it entered that country as early as A. D. 60. From Ceylon it found its way into Aracan, Burmah, and Pegu, then a mighty empire, A. D. 897, Siam, Laos, Anam, Cochin China, Tonquin, and Ava. From Nepaul, where there is a very rich Buddhistic literature, the creed came into Thibet and Mongolia, the Mongol emperors of Hindostan having instituted a patriarchate. In Thibet, great dignitaries, called (about 1430) Dalai-Lamas (Sea priests), pretended to be personified Boddhisatt-vas. Many Calmuck and other tribes of Tartary and Siberia also adopted this religion, and its influence is even perceived in Swedish Lapland. Its priests bear different names, as Talapoins (umbrella bearers) in Siam, Bonzes in Japan, Rahanes in Mongolia, &c.; they are dressed in yellow gowns, shave their heads, and go about bare-headed. The total number of Buddhists is about 290,000,000. In all Buddhistic countries there is a profusion of temples, monasteries, stupas, dhagobas (pillars and mounds containing relics of Buddha), and other monuments overloaded with statues and sculptures of deities in grotesque forms. Among the great number of ancient grottos, containing temples and cells hewn in rock, many of them also containing monuments of Brahminic worship, we may mention those on the islands of Salsette and Elephanta, those at or near Dhumnar, Carli, Nassuk, Ayanti, and those most magnificent specimens at Ellora. Ceylon boasts of its Lova Maha Paya, with 1,600 pillars; of its mountain temples at Mehentele, grottos and temples at Dambulu galle, &c. Most of them are in ruins caused by time or by Portuguese devastation.-Of the many battles of the Buddhists with the Brahmins in India few turned out favorably for the former, one of their victories only (A.D. 478) being worthy of record. Although Buddhism was most ruthlessly overthrown during a contest which lasted for 15 centuries, still some of its traces remain in Hindostan. In the 4th century, Fa-hian witnessed its decadence, and with other Chinese pilgrims, especially Hiuan-Thsang (629-'45), recorded what remained of it and its monuments.—Having thus narrated the history of Buddhism, we now come to a summary of its doctrines, and of their principal ramifications. First of all, Buddhism maintains the vacuity, unreality, and illusiveness of nature. Naught is everywhere and always, and is full of illusion. This very nihilism levels all barriers between castes, nationalities, and conditions of worldly fortune, embracing even the vilest worm in the brotherhood of Buddhism. "All compounds are perishable," is the last sentence which Sakyamuni is believed to have uttered. The final object is Moksha, Nirvana, or the deliverance of

the soul from all pain and illusion. The endless rotation of metempsychosis is broken, by preventing the soul from being born again. This is attained by purification from even the desire of existence. These fundamental traits of Buddhism are plainly comprehended in the most ancient positive dogma, which is contained in the 4 Aryani Satyanis, the sublime truths attributed to Såkyamuni in his first sermon in the gazelle-grove near Benares. These 4 truths relate to pain, its origin, its annihilation, and the way leading to annihilation. "Pain is birth, age, disease, death, the meeting with what one dislikes, the separation from what one loves, the failure to obtain what one strives for. The causes of pain are the desires, lusts, passions. Annihilation of all these causes is the third truth. The way of annihilation again has 8 parts: right view, right seuse, right speech, right action, right position, right energy, right memory, and right meditation." Such is the "formula of faith," found upon many monuments, as well as in many books. The essence of Buddhistic morality is "to eschew every thing bad, to perform every thing good, to tame one's thoughts"—this is the doctrine of Buddha. As the doctrine of Mohammed is succinctly called al Islamu (obedience to the precepts of the apostle), so the precepts of Sükyamuni are named the "Way (Gati)," or the "Way of the 4 truths." To teach is "to turn the wheel of faith." The genuine law of Buddha Sakyamuni was contained in these 4 truths, and was altogether moral and practical. All the mythology, sacrifices, penances hierarchy, scholasticism, mysticism, which we find connected with it, have been superadded in progress of time, in different countries, and This mixed under manifold circumstances. Buddhism, as depicted in the above-mentioned Hinayana, comprehends 8 sections, the Dharmma, Vinaya, and Abhidharmina. We will give an account of each in its order: I. The DHARMMA (virtue, duty, law, from dhri, to support), comprehends the revelation, the dogmas, and their precepts; and in a strict sense, cosmology and cosmography, mythology, metempsychosis, and the theory of salvation. Buddhism knows of no creation. "The worlds are, from the not-beginning, in a continual revolution of arising and of perishing." Succession is the only reality; every thing else being a process and progress of becoming in the concatenation of cause and effect. This rotation has no cause, hence no beginning. It is not within the domain of the intellect to know whence all entities come or whither they go. Four things are immeasurable, viz.: the science of Buddha, space, the number of breathing beings, and that of worlds. A Buddha alone can conceive the worlds. heresy to believe the worlds limited or illimited, or neither limited nor illimited. Mount Sumeru is the centre of the world, as deep in the ocean as it is high above its level. This ocean is enclosed by a girdle of rocks, within 6 other concentric oceans with similar girdles, which decrease toward the periphery (the

oceans in breadth, the rocks in height), progression of 84, 42, 21, 101, 51, 21, 1 sands of yojanas (about 5 miles each). The stands again in the genuine ocean kno men, in which are the 4 islands with ! each. The southern island, or Ingular, with men of trigonic face, nvin years, 8 yards high; the eastern, semici with men of semilunar face, living 250 y yards high; the western, circular, with faced men, living 500 years, 16 yards while the northern island is quadrangula taining the happy square-faced hyperbe who live 1,000 years, and measure 82 Chakravula (chakra, region; vala, to pass), or an iron wall of 3,610,850 yojana which the sea is very shallow, surroun above-described group. Each such unive its own sun, moon, stars, and hell. is like an index of a dial, shading each and thus producing night. Above the Diva lokas, or heaven of the gods, 6 in 1 forming with the earth the Kama dhatu . principle. 2. Above it the Rupa dhe form-principle, with 4 Dhydnas (divin clear contemplations), of which the fit 8 heavens for the Brahmas and their the second 8 for the gods of light; the of purity; the fourth 7 of merits, exemptic pain, beauty, &c. 3. Still higher is dhatu, or formless and colorless principl 4 heavens, viz.: one of illimited space, illimited knowledge, one of naught, and 1 of neither thinking nor not thinking. the extreme heavens, the lowest in p and majesty is that of the Catur ma käyikas (quatuor magnorum regum con or kings of demons, a sort of magnates ing the higher heavens. The 2d. Trayast (triginta trium) belongs to Indra, who highest Buddhist god. The 26th of the sanjnanasanjnayatanam (nec relut cogn um nec non cognoscentium), or the 28 highest heaven of all, affords a life of great Kalpas or periods from the origin world to the beginning of another. Dhyana, referred to above, comprises Dhyanas of the 8d kind, or 1,000 mil. worlds of lust, with 1,000 millions Dhyanas, and 5,000,000 of the 2d; the forming one great chiliocosm, or 1,000 Again, 1,000 great chiliocosms, as mperish at each revolution, form a B territory, or system of a single Buddha. the northern Buddhists "3,000 great cosms" is a stereotyped phrase. Twent chiliocosms, piled one above the other, a lotus-flower, of which an infinite i blossom in the "sea of aromas," each l 20,000 millions of worlds. The number c aromatic seas is again 10 times as great number which we would write with a followed by 4,456 488 zeros," and which extend, in common print, in a line of feet. The above-named 8 groups of wo

haves are peopled everywhere by entities of a flatis (goings or ways of re-birth), of which the first 2 are good, and the last 4 bad, viz.: 1. he way of the Devas, or gods, who, although marowed by Buddha, have been adopted by is followers. The gods dwell in the 26 or 28 haven, and are named accordingly; the 4 great hing, the 88, the not fighting, the joyful, the change enjoying, the changing others arbitrary, the assembled Brahmas, the servants of Brahma, the great Brahmas; the gods of limited light, of jure light; of ested parity, illimited purity, perfect purity; of great merits, the unconscious, the not great, the except from pain, the well-seeing, the bestife, the highest; illimited space, illimited me, the place of naught, that of no-thought, and ast no-thought. 2. The way of men. 8.
That of the Asuras, (a, not, sura, spirituous igus,) or most powerful bad genii, of mondous shapes. 4. That of unreasoning animals, thus shapes. 4. That of unreasoning animals, fined into footless bipeds, quadrupeds, multiput. 5. That of Pretas, goblins, monsters of inger and thirst, giants, moving skeletons, freesters, vampires, &c. 6. The denizens of hel, placed originally in 4, later in 8, at last in 18 hells of all degrees, from a sort of limbo e pergetory to the Lokantarika Naraka, or smediate hell, destined for sceptics, who are the greatest of all sinners. These hells are of mbainic invention.—As seed and plant, or egg des series; so is it with worlds. Innumeraworlds have thus appeared and disappeared. lis chapter of world-renewals is the most controlled and incomplete in popular Buddha, because it grew up by agglomerating the that ic notions of many people around the nudistruction, and reconstruction, and a Mahasor great Kalpa, as we have said, is that the origin of a world to the beginning of new one; it is subdivided into 4 Asankhya-Aspes or incalculable Kalpas, viz.: of destruc-im, interval, renewal, stability; each again with 30 Antara or intermediate Kalpas. If it hald min incessantly during 8 years on the viele globe, the number of the fallen drops would not equal that of the years of one Asan-Each destruction is announced 100,000 me in advance by a Deva, calling on all bemany of the damned are reborn as men; the s of the lower heavens and men rise higher. At the appointed time a great cloud in the last time; then every thing dries m lower beings are advanced, and only sceptics and infidels are reborn into the Lokantantarika. The dross of nature is now annihilated; a 2d and and dry up all flowing waters; a 4th and 5th dry up the ocean; a 6th heats the such up to the seat of Indra; the 7th at last indist to a flame, which consumes the world be the shee, up to the heavens of the hansis inclusively. The liquid destruction by wie waters is some what analogous, and reach-

es beyond the 2d Dhyana. Wind destroys still higher up the whole 3d Dhyans. The scheme of the intensity of the destructions is: the 1st, 8d and 5th, are moderate; the 2d and 6th are middling; the 4th is great. The world preceding the present was greatly destroyed. In short, there is a whole minute tariff of the medium, degree and extent of world-destructions. 4th Dhyana forms the limit of destruction, it being, together with the higher heavens, a reservoir for the reconstruction of the universe. The Kalpa of emptiness is a dark vacuum below the preserved heavens, existing during 20 intermediate Kalpas; after which a wind from the 10 quarters begins to blow; then a cloud gathers; rain contained by the wind as in a vessel, fills the vacuum up to the reservoir; then all beings are reproduced by the churning action of the wind; first the annihilated Dhyanas, then the lower regions, the "throne of intelligence" and the Boddhi-tree, near Buddha-Gāya (gai, to sing), and the lotus, whose number of blossoms is emblematic of that of the Buddhas (originally 5, afterwards 1,000) in the future Kalpas. Many of the beings preserved in the higher heavens are reborn on the new earth, with bodies shining like the sun, and live by meditation. After having tasted of the sweet new earth-sap, their bodies begin to ferment with lusts, to have need of the sun and moon (which only then shine forth), and they deteriorate in the ratio of their appetites. Their nutriments grow coarser, and excite sexual desires, which beget the necessities of birth and other evils. The greedy accumulate too much rice, which ceases to grow spontaneously; agriculture therefore becomes imperative. Then "mine and thine," or ownership, are contrived; followed by laziness, gluttony, dissipation, envy, avarice, theft, murder, war, &c. Therefore, Mahā Sammata (the great assented to) was chosen as the first king on earth; and castes followed. The duration of life sank with the deterioration of beings to 80,000 years: many are reborn as animals, and at last, hell yawns. After this, follows the Kalpa of sta-bility. In it the life of men lasts only 10 years, then 80,000, and thus gradually and alternatively 20 times, in the ratio of sinfulness. In this the most majestic and perfect Buddhas are born, for the renewal of the Dharmma. A Kalpa with 5 Buddhas, is called Bhadra (prosperous, virtuous), and such is the present one, which is in its decline. Deterioration by sin is cured by wars, pestilence, hunger, scourges, which arouse the survivors to better conduct.—The world is governed by destiny. This differs from the governed by destiny. This differs from the Greek μοιρα, the Latin fatum, and the maniyat of the Islam; nor is it a law of nature, or an eternal decree, or predestination. According to the Buddhists, living beings are by no means products of nature. Only because the entities have sinned from eternity or become material, matter exists; because they are from eternity in the process of purification, the innumerable worlds arise and vanish. The entities are the marrow, the universe is its lodging. In short.

the universe is a result of the morality of breathing beings, and destiny is the product of their merit and guilt. There is no indivisible absolute Brahma, as the germ of nature. The cardinal point of the rotations of the worlds lies in the lowest stations of the 4th Dhyana, viz.: in the 2 heavens of the gods of great merits and of the unconscious, which form the line of demarcation between sin and sinlessness. Morality is the prime agent of that whirlwind which tosses the universe into being and notbeing. The mode of its action is variously explained.—Beings migrate, because they are sinful, by having fallen through terrestrial nourishment into avarice, hatred, &c., in consequence of unatoned guilt in former lives. Buddhism makes no inquiry into the origin of individual entities. Sansara (san, Lat. simul, sra, to go) or mundane life, is the fundamental evil, the ocean of existence with the 4 poisonous streams: birth, age, disease, and death, upon which we are tossed by the storm of passion; restless and without haven. Out of the Sansara there is naught; on the one hand there is emptiness, and on the other Nirvana, or beatific enfranchisement. In Sansara there is no truth, no essence; all is deceit and fallacy. It is only constant in inconstancy; in it every form or determination breaks like a bubble. Birth leads to death, death to rebirth, youth to old age; beauty, health, wealth, vanish. All ages are beset by peculiar evils. Death is not the last of pains, for it leads to birth again. Sin degrades to a lower being or leads into hell. Even godliness does not exempt from rebirth or from relapse into a bad Gati (way) of rebirth.—With regard to ontology, and psychology, the philosophic schools of Buddhism are at variance, and especially concerning the notions of the soul, and of the Nirvana. In some cases the soul of man may sink even below the 6 Gatis or ways of rebirth into the vegetable and mineral way; although this view is less supported by the more ancient texts, than by Brahminic or Thibetan legends. Klesa (klisa, to suffer or inflict pain), or the original sin in a former existence, is the fountain of all evil. Its conquest is the last aim of all life and effort. He who breaks its fetters, "breaks through the eggshell" and escapes the alternation of births. The Klesa awakens evil desires, which are chains to existence; this clinging to life impels us to a renewal of existence, and to further wandering after death; the love of life begets new life. Both this motive and the so-called destiny by morality have their root in the Klesa: the former acting as impulse or gravitation into corporeality, the latter, as the germ, leading to the realization of the former. With the death of the body the soul is not freed from its deaires, but wanders by that Gati, which it deserves. All good and bad deeds are balanced against each other like credit and debit in a commercial account, and determine individual destiny, not providentially but in consequence of the endless chain of causes and effects. Only

a Buddha or an Archeha (ercha, to we saint can overlook and unravel the the knotted threads of the moral chain. said once to Ananda: "If a well-door to hell, the merit of his present life is matured, but the evil of a former. warded before such maturity would be mount to being paid before the term."—Freedom is obtained only af cape from the bonds of desires, and an power of our past deeds. Then only do with a "divine eye," our numberless risings and fallings, which are all due to tions. The succession of the existence determinate being, is also a successi souls, which are united by the law of causality, each one being the prod guilt or merit of all its predec individual dies, the body is broken, the extinguished, leaving merely its deeds with consequences, as a germ of a new i According to the germinating power, de by the Karman (morality of actions), tall is an animal, or a man, or a demon, or Identity of souls is thus replaced by t nuity, in the solution of the moral probe soul inherits the fruits of the Karman . office of liberating and purifying its preda I ought, therefore, not to act well behalf of my own selfish weal, but efit of a new "I," which is to follow The Buddhistic metempsychosis is, rather a metamorphosis of the soul. is lighted from another; the lamps d second only receiving the light from So is it also in regard to souls."—The of Buddhistic salvation is the uproot. by exhausting existence, by impeding iuunce; in short, by passing out of the into the Nirvana. The signification of term is a prolific subject of discussion and lation with the different philosophic: religious sects of Buddhistic Asia. ters prefer vague definitions, from ing sectarians. It means the highest sufra ment; to theists, the absorption of indivi in God; to atheists in naught. The Tu translate it by Mya-ngan-los-he dition of one freed from pain; e or freedom from transmigration. ... we way a nir, not; van, to blow, and arrow; its graphy is Nirveana; its collaterals are: 1 namastaka, liberation; nirrodpa, put as a fire, &c. It is Nibbana in Pali, av Burmese, Niruphan in se. Ni-pan nese. Weighing all di it may be safely (enfranchisement fr MALL W SOCIS €. birth, the cessation ... on an misery. It as yond of the Sansara, its contradiction: , or form. In the 8d o **SD&06,** be in ble and in m malum, iso aunihim urd #1 the The c D (OUNT ıllı Þ

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logma of naught" became with the emancipation from suffering and ou of e nce. By dint of Dhyana (diand of ecstasy, the soul, forsakmay, even during bodily life. mentarily to the Nirvana; and this was also considered as one heavens, as the empyreum of the colorless world. In progress of vāna was divided into 3 kinds. Nirvāna, the Parinirvāna or com-L and the Mahaparinirvāna or great a, answering to the 8 degrees of m sanctity. In the modern mysschools, which contain a mixthe Nirvana means the return ect, nameless monad or original a higher point of view, both the rirvana are each a naught; the changeable naught by deception; that absolutely. The Sansara exists e; it is a mere illusion of the rum un destruction of this ignorance, uvina resulta.—In the Kalpa of restoration most perfect Buddhas appear to turn the **b.** 1 ina irate a new period of Innumerable Buddhas They are beings who u, es with their own energy, es of all sorts in thousands pinnacle. All are born meir mother dies on the them birth; their doctrine ne; in short, their whole secreotyped copy of that of They differ merely in parentage, of Brahminic, another of Kahattriyic, ; in age (which is determined by that d in which they reveal themselves), less than a hundred, another many ; in size, one being 6 feet, s in stature, according to the od. They are called Tathhus, gata, known, and gone). each evaporates with time, of Then a Bodhisattva (intelli-chosen among, and by the ho is to become by a new ddha. His career has 8 aue length, viz.: 1. That of a Buddha; 2. That of prosof nomination by the Tathaon earth. Only a monk bulle of the 4 Dhyanas, and who Buddha during a preceding life, The exercise of the 6 Parproter; ita—itus, a, um) patience, energy, meditatheir highest degree, and of existences, can alone fit the or this career and mission. -Few of ble Buddhas, who are said to have many millions of Kalpas before nominally recorded; but 24 of predecessors are mentioned byhimpromised him that he should be-

come a Buddha; especially Dipangkara Buddha and 6 others. Of the 5 saviours of the present Bhadra Kalpa 3 appeared before Sākyamuni, namely: Krakuchouda (krakach, saw; uda, end) Karakamuni (karaka, gold; muni, saint), and Kasyapa (kāsya, spirituous liquor; pā, to drink), while the 5th, Maittreya, (mitra, friend, charity) is yet to come.—Many legends concerning the predecessors of Sākyamuni are applied to him; and it is not absurd to suppose that he represented his doctrine as pre-Brahminic. All these Buddhas of the dimmest antiquity are dogmatic. mythological, and fantastic personages. historic Buddha is also not altogether free from legendary qualities. For, says a legend, when in unfathomable fore-ages, Brahmā saw a youth carrying his mother through a most terrible tempest, he instilled into his heart the wish to This wish lasted during the become a Buddha. revelation of 125,000 Buddhas, and his prospective stage was matured while 887,000 Buddhas were turning the wheel of faith. As a Bodhisattva he offered flowers to Dipangkara, on a spot near the present Jellalabad.—The Jatakas (jana, to be born) and Jātakamalas (māla, wreath of flowers) on the migrations of Sākya, are a favorite subject of oriental monastic poetry, as well as of the pictorial and plastic arts, and a source of many pious frauds. Deanglun (the wise and the fool), a Thibetan collection of such legends, and kindred works, are of recent date. Sākyamuni, although passing through 550 transformations (as king, hermit, priest, courtier, Brahmin, Indra, merchant, and as animals of many kinds), in a Cingalese legend, preserved his Bodhisattvic character in the greatest purity. His sufferings on behalf of the salvation of the world, were extraordinary in their number as well as in their most horrible nature. These Jātakas took place mostly at Benares and on the Indus, about the time of Christ's birth, and the centuries immediately succeeding. spot is shown even now at Attock, where, as a prince, he offered his body to be devoured by a starving tigress and her young; and a few miles thence another, where he used his own skin as a tablet, splinters of his bones, as styles, and his blood as ink, to record a lost passage of the Dharmma. In the legend of the royal prince Vesantara, his penultimate life as a Bodhisattva is ushered in by his Maha jataka, or great birth. This legend is popular among all Buddhistic nations, from the Calmucks to Ceylon and Siam; in it he makes the most extraordinary sacrifices of his person and of his wife and children. antara went to the heaven of the joyful; thence, in the shape of a white elephant, into the body of Maha Maya to be born as Sakyamuni. His royal father became his other father, Suddhodana. The law which he revealed is to last for 5,000 years, and disappear with the world before the advent of Maittreys, whom he had al-ready crowned in heaven, and who is to bring a period of peace and holiness upon earth. The VINAVA (vi, before; ni, to guide) is the discipline of the priests; one of its parts, called

eila (to learn), regards the morality of laymen. The Sramanas (sense-tamers) are bound to observe 250 ordinances. Of these 10 are essential, viz.: not to kill, not to steal, to be chaste, not to lie, not to get drunk, not to eat in the afternoon, not to sing or dance, &c., to abstain from ornamental dresses, not to use a large bed, not to receive precious metals; 5 concern the respect to be paid to Buddha, to the law, and to the priesthood. Good conduct, good health, and little learning suffice for admission to monkhood; even in very early youth. The novice is enjoined to eat only the leavings of laymen's meals, to wear a soiled garment of rags, to live near the roots of trees, to use the urine of cows as medicine, not to boast of superhuman faculties. Ordination is performed with many ceremonies, on great festival days. The vows do not bind for the whole of life. The clerical dress, which consists of an underjacket, a gown reaching to the knees, and fastened by a girdle, and a cloak over the left shoulder, all yellow, must be kept on, even at night, and its loss entails that of the priestly character. Different climates, sects, and dignities have introduced some modifications; thus, Lamaists wear crimson or violet garments. New and costly materials, cut in pieces, are sometimes sewed together and sprinkled with dust, to comply with the letter of the law. Except apostles and very holy men, all others shave their heads and beards at the new and full moon. The nails and teeth are kept clean. The indispensable implements of a Bhikshu or mendicant are: a great, round, narrow-mouthed bowl, without a handle, for receiving alms; a sort of sieve or ewer to filter water; a staff or umbrella; a rosary of 108 beads; a razor, and needles. Beside these, he has no property, and lives altogether on alms, which he collects without importuning the givers.—Solitude and wandering about, begging without a fixed residence, were soon exchanged for residence in convents, with cells for single monks. Celibacy is strictly enjoined. The homes of luxury, of nobles, of widows, and infidels, must be avoided by the begging monk. The receiving of alms or of presents is regarded as a favor to the giver, who is more benefited than the receiver. It is a sin to receive more than is needful for one meal, or to spill a part of the gift, or to separate liquid from solid victuals. Animal food is forbidden, and even vegetables while retaining the power of germinating. Although poverty be a law for single monks, the monasteries can receive and possess great wealth, lands, serfs, &c., for the maintenance of temples and stupas. Obedience and subordination are less required than fraternal and peaceful conduct. Sins are confessed twice a month, to an assembly of at least 4 priests. The penalties are not cruel, and consist in repentance, reprimand, suspension, or expulsion, according to the character of the sins. Nuns (Bhikshuni) have to observe the same rules as monks, and to be respectful to them; some are allowed to

dwell with their parents or friends. also shave their heads, dress in white, and a about begging, sometimes for the The abbots, or heads of monasteries, are cur by a meeting of the monks; but in Siam Burmah they are appointed by the king, among the Lamas of Thibet they are elected the college. The number of monks in a astery is from 4 to many thousands, espein northern countries; for instance, in the --legiste monastery of the Chutucts, in there are 80,000. On the whole, the is more democratic than monarchic. seen that the uninterrupted series or zo triarchs, who are believed to have followed Buddha Sakyamuni, has no historic In Thibet, however, there is a minutery reted hierarchic and monarchic government der the Dalai-Lama, who is always rel after death in another person, and w ministration is carried on, during his 1 by regents.—In the beginning Buddh very simple, without a complicated system saints; but in progress of time we find: te ers of theology; Aryas (venerables), who I the 4 truths; men of the 4 paths or a those who have attained the stream which them into the Nirvana; others who was turn yet once to life; others who will not re turn; and Archats, or the worshipful, v perfectly pure, infallible, endowed with ulous powers, and see the Nirvana; still . saints, of 3 sorts, according to the 8 p or vehicles. The 8 sorts are: those have on account of their being pupils of Sak Pratyeka Buddhas, or self-saviours, a times higher than Archats, comprehend, causalities; and Boddhisattvas, a sort of ennic Buddhas. The 3 passages or vehicles represented as being drawn, the little by lopes, the middle by gosts, the great by Buddha himself is represented to have thrice as great in body as ordinary men, of most majestic beauty of appearance, with great and 80 lesser characters of physi fection, with a protuberance on the her bluish-black locks flowing like a periv of hair between the brows, &c. are marked with various emble wheel with many spokes, an unum phant's trunk, a lotus, mount moon, tiger, mystic crosses. about him is aromatic, his head is surre a halo of light.—Buddhism favored the admitting them to salvation, and bindi to the priests. Upasakas and Updea before; asa, to be) are male and female re servants, a sort of half monks and h bound to observe the first 5 of the auto precepts, with the following 5: not to swe curse, not to talk nonsense, not to be concent or greedy of pleasure, not to be mal to eschew superstition, heresy, and scep In short, the whole morality is more one un durance, of patience, of submission, and al nence, than of action, of energy, of

s of all beings is its nucleus; each our neighbor or possible relative. enemies, to offer our lives for an even from defensive warfare, atest of victories by conquering and mildness, to be obedient to cherish and respect parents, old virtuous and holy men, to provide and comfort for men and animals, on the roads, dig wells, &c.—such duties of Buddhists. No religion by them, religious wars waged have never been heard of only contest on record being tue Thibetan Yellow and Red h the latter were driven out into s of the Himalaya (Bhotan, Ne-"Honor your own faith, that of others," is a Buddh-Auulai-Khan, who became a conallowed priests of all creeds to t," who were eager to con-uwn faith. The persecutions m Japan, China, Siam, &c., are by other than religious causes, sonly reprisals against their inter-bits. National barriers have been mabits. National barriers have been ctually levelled to the ground by Polygamy is not countenanced, but derated where it had existed before ie in. Monogamy is the rule in Burmah, somewhat less so in lia, and among the Calmucks. . Illegitimate children are not disavandoned, but taken care of, alictly legitimate. Woman, in gentreated than by any other orientan the cold, high regions of Thibet, Himalayan valleys, polyandry is not (sometimes as many as 10) men, rs. having but one wife.-Worof the word, arose slowly and 1. Almsgiving, confession, ne, and other relations between laity, produced, at last, the use adoration, and of sacrifices. kyamuni, his pretended image, worward those of others), became Buddha is said to have dolatry. of himself, which became the uel of an infinity of images, like. The ancient Buddhistic to the taste and skill of the were mostly monks. Three sorts dha and of saints are distinguishr dhātus (elements) or sariras A such as teeth, hairs, nails, pieces once possessed by the saint; which he came into contact. renowned of relics is Buddha's left eyepresent palladium of Ceylon, whose quite romantic and miraculous. It is a

piece of bent ivory, about 2 inches long, kept in a splendid chapel and surrounded by many jewels. Buddha's skull, eyeballs, shoulder-blade, &c., his manuscript of the Dharmma, his gowns, alms pot, &c., his shadow, heaven-ladder, his animal bodies, as bird, elephant, &c., the Boddhitree at Gaya, and many other relics, are shown in various places. Relics are kept in stupus or topes of peculiar construction; the shape of a waterbubble, and one or several umbrellas being characteristic and symbolic features of these monuments, among which the celebrated porcelain pagoda of the convent of celestial beatitude at Nanking is the principal. Most have cupolas; but some, like the Suvurghans of the Mongols, are pyramids, or only truncated pyramids. Their height is from a few inches to 800 feet and more. Most of them contain a small cavity, in which the relics are kept; but some are solid. A trinity, called Triratna (8 jewels), was at last developed in the less than unitarian Buddhism, probably the prototype of the Brahminic Trimurtti, but certainly a personification of the ancient formula, "Buddha, Dharmma (law), and Sangha (collection)." We know the 2 former. Sangha is the collection or congregation of saints, or what we call the church or the council; but at last it came to mean simply the priesthood. Since the priesthood was the representative of Buddha, and the expounder of the Dharmma, it became itself the whole trinity, and even God; though in pure Buddhism no God is mentioned. The original formula of a prayer: "I take refuge with Buddha, I take refuge with Dharmma, I take refuge with Sangha," is repeated mechanically ad infinitum by the aid of the beads; the movement of the lips being sufficient to render it efficacions. At last praying machines were constructed, consisting of a sort of hollow barrel, which turns on an axis, and in which the prayer, written on a great many little scrolls, is turned about like coffee in a roaster. Fa-hian, the Chinese pilgrim, describes (A. D. 400) some which he saw. Some are colossal and moved by wind or water, or by special turners, or merely kicked into motion by passers by. Magic formulas of exorcism, storm-making, raising from death, &c., remnants of ancient Shamanism, have been engrafted upon Buddhism amongst the Mongols and Calmucks. Sermons have also become an integral part of worship, as also processions around temples or stupas, with relics; sacrifices of fruit, flowers, incense, eatables (not bloody); confession of laymen, consecration of sacred water, sacred baths or baptisms (in Mongolia), fastings, psalm-singing, chorals, benedictions, litanies. The Lamas are dressed in pontificals, like those of the Catholic bishops. The temples are square, with a nave and lateral halls, separated from it by columns. Opposite the entrance is the sanctuary with the altar, and images of saints. In some there is a dagoba under a cupola. Paintings, banners, garlands, tapestries, allegoric representations adorn the church. There are 8 altar implements: an umbrella, a horn, crosses entwined in a knot of 24 angles, a lotus-flower, a gold-fish, a ewer, a wheel, an allegory of 5 senses; all symbolic of Buddha, and made of pasteboard or of metal, varnished, gilt, and painted. On the altar are sacrificial shells, sacred vessels, a metallic mirror to reflect Buddha's image, a round plate with 5 protuberances, representing the Meru and the 4 Dvipas or quarters of the world, and a chalice. Fumigations, illuminations, music, bell-ringing, and many other things similar to those used in the west, attend the rites. Beside the festivals at the new and full moon, and some others in different countries, there are 8 great annual festivals. One is called the lamp-festival at the close of the Varsha, or rainy season, our autumn; there is another at the beginning of spring; one on the day of the conception or birth of Sakyamuni, whose time varies in different countries. There is also, in some parts, a 4th festival, when the images of Buddha and of the saints are carried about on wagons; and in the north a 5th, is that of the consecration of water, rivers, lakes. The Lamas also say masses for the repose of souls. Synods are held annually and quinquennially; the latter, in olden times, on the sacred plain at the confluence of the Ganges and Jumna, called the great almsfield. Family-worship takes place at different stages of life, such as birth, naming of the child, hair-cutting at puberty, marriage (though this is merely a civic and not a religious act), death, funerals; at all of which the priest is present, although not necessarily as in Europe. The priest acts also as a physician, and in the north as a sorcerer, magician, augur.—Samadhi (sam, together; dha, to have hold), or meditation, for the sake of arriving at the extinction of the selfhood in the manner described above, is the acme of spiritual life. It consists of 4 degrees: 1, consideration of one thing as distinct from others, with satisfaction at the discernment of multifarious things; this frees one from the conditions of sin; 2, suppression of that discerning judgment, reduction of the many things to one; with pleasure thereat; 3, indifference in the discernment by judgment; memory and consciousness yet active, with a dim feeling of bodily well-being; 4, complete indifference, purification from all feeling of joy or pain. Nothing can resist contemplation, and the Bodhisattvas thereby reach the 28th There are theories concerning 108 Over the 28th heaven there is Samādhis yet Nirodha (ni, before; rudha, to oppose), or the obstacle, before the Nirvana can be attained. Whether this obstacle necessarily ends life, is not yet ascertained. The fruit of Samadhi is Djana, science or omniscient omnipotence, containing the *Molsha* or final liberation. III. The Abhidharmma (abhi, over, upon, and *Dharmma*) constitutes Buddhistic metaphysics, and is derived indirectly from Sakyamuni. The southern Buddhists say: "Sutras are for men, Vinaya for priesta, Abhidharmma for gods." There are but 2 sources of know sensual perception and logical deductionare 2 principal philosophic schools: 1, the Vasbhashikas, or dilemmists, who the necessity of immediate contact with a ject to be known; 2, that of the who insist on perception and therefrom. Some among the for existence of the world. Buddh ceedingly contradictory. Each uet ends in naught. To be is A common formula of thing is and is not, and it is The method is purely do proceeding with stereotypeu of formulas. Philosophy, c ogy, are an ever locomotion. In general, the wheel as bubble are the constant emb of Buddhistic reasoning, which med in the theory of the "great p is merely a product of morality. count 5 elements, with as many senses; some have 6, viz.: earth. 1 water, wet, tongue; fire, hot, eye; skin; ether, audible, ear. To these is su Manas, or common sensorium, whose obic the Dharmma (law, being, nature mat the Vidjaāna (science, conscience) systems admit a specific soul or s Atman, Upadhi); others deny it. It less to enter into further details, and clude with a list of the following causes (Nidhānas; ni, in, on; dhā w pa 1, age and death; caused by 2, birth: by 3, existence; this by 4, attack things; this by 5, desire; arising fr sation; which presupposes 7, con senses; which perceive 9, for or distinction; caused by 10, conce ideas or consciousness; which comes stirring and action: this being, at result of 12, Avidya (non and vius ignorance. All these illusions must b hilated before we can sink into the em of the Nirvana.

BUDDING, a method of proper ad shrubs. It is now well undersease. and shrubs. seeds of cultivated fruits, when planted. produce trees bearing fruit true to t Young trees, grown from seeds, are ca They are removed from nursery be a thrifty state, with well-ripened woo regular nursery rows in a d gracearly spring, and in sum wo buds from fruit trees. ly remodelled by the inoc the thrifty young shoots with burn desirable varieties of fruit than their product. A tree is composite in ter. Each bud may be made a vidual; it is a point of vitality, delicate rootlets of woody fibre. J in the rich soil of the branch borne, at the first awakening or use u tree in early spring; just as a seed BUDDING

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the influence of warmth and moisture, when placed in the soil, develops the little germ which sends its roots to feed in the mould by which it is surrounded. When a bud is carefully removed from a tree, it bears all the charattrictics of that tree, and when properly set is a thrifty young stock will unite with it, and produce a tree similar to the one from which it was removed. The results produced by budg are the same as those brought about by grafting; but the former has many advantages, as follows: 1. Stocks may be budded at m earner age than they can be successfully grated. 1. Stocks may be budded the same seeon they are transplanted, while they should not be grafted until the ensuing season. 8. ding is a more rapid operation than grafting; a dow workman being able to set 2 in a minute, and frequently 1,500 to 2,000 are set in a day, viere a lad is allowed to tie on the bass mat-ing to protect the bud. The work is also done sassion when there is not so much hurry as is the spring, when grafting is performed. Is tree be budded during summer, and the bud is, the operation may be repeated the same meson, or the stock grafted the ensuing spring; whereas, if it be grafted first, it may be entirely lest. 5. Very choice trees may be rapidly propagated by budding, one bud being sufficient to reproduce the variety, while in grafting several is are used at once.—For budding, a sharp, thin-bladed, round-pointed knife, with a handle terminating in a thin wedge-like piece of ivory whose, which is useful in raising the bark of the stock, good stocks, good buds, and bass matting for tying, are required. The process of hadding, though simple, requires a dexterous The buds are taken from shoots of the present year's growth, when they have become parfected; this may be known by the formation of the terminal bud. Should the shoots be backward in growth, they may be more rapidly perfected by pinching off the upper end, checking their growth, and ripening the parts. The buds to be removed are developed in the axils of the haves, or that point where the leaf joins the being removed, or they will be of no value. When of proper age, the young shoot from which be bads are to be taken is cut away with a kaife, the leaves are removed from it, bals a handles. The removed shoot is then called a "stick of buds." They may be wrapped in deep cloths and laid in a cool place for soveral days, if necessary; or they may be packed in moist awdust to exclude the air, and thus sent a long distance with perfect safety. When the operator is ready, he selects a smooth place the stock, making an incision across it through the bark, and another at right angles to and below it, so as to form a T; the bark is raised on each side of the cut by the ivory hade of the budder's knife, and the stock is rady. Taking the stick of buds in his left land, the operator inserts his knife above the

bud, bringing it out below, so as to cut away the bud, a portion of bark, and a part of the wood. Some budders are particular to remove this bit of wood, so as to expose the root of the bud to the surface of the wood of the tree, while others are not particular, so long as they secure a wide surface of bank around the bud to attach to the wood of the stock. It is a very nice operation to remove the wood successfully.

Mr. P. Barry says, in his "Fruit Garden:"

"When it happens that the knife passes exactly between the bark and wood, the bud cannot fail to be good; but this rarely happens; more or less wood is attached, and the removal of this is the nice point. Where the buds are flat, the difficulty is less than when they have large, prominent shoulders, as the plum and pear have in many cases. When all the wood is taken out of these, a cavity remains which does not come in contact with the wood on which the bud is placed, and therefore, although the bark unites well, the bud will not grow. Sometimes such as these are separated by making an incision through the bark, lifting the edge of the bark attached to the bud with the knife, and pushing it off with the fingers. A safer way still is to cut around the bud and draw a strong silk thread between the bark and the wood, thus removing the bud in perfection." Mr. J. J. Thomas says, in his "Fruit Culturist:" "The English practice of taking out the small portion of wood cut from the shoot, has been found, in the climate of this country, not only useless, but really detrimental. Indeed, it often happens that buds of the cherry and other trees of rather spongy growth and slow adhesion, succeed much better when a thick portion of wood is taken off than otherwise; the wood in such cases assisting in the retention of moisture until cemented to the stock." Having prepared the bud, insert it quickly in the incision on the stock, and commencing at the bottom wrap the bud and stock with strips of bass matting, merely leaving the vital point of the bud exposed, and making the whole impervious to air and water. The bud will soon swell, when the tie should be loosened, and finally removed. This will happen in from 10 to 20 days. Should any length of time elapse from the removal of the bud to its insertion, it should be held in the mouth to keep it moist. The time for budding is usually from July 15 to Sept. 15. The only rule that can be given is, to secure the perfect development of the bud, and to ascertain that the bark of the stock separates freely from the wood. This will occur earlier or later, according to the kind of tree, location, and season. The inserted bud will remain in the stock in a dormant condition until the ensuing spring, when the top of the stock is removed a few inches above the bud; thus the latter receives the whole sap of the stock, and when a shoot is produced it is stayed by being tied loosely to the stock left above the insertion. Later in the growth of the tree the stock is cut down to the but of the new shoot, which rapidly heals the wound, and the young tree becomes

a true representative of the variety from which the bud was originally derived. Budding is sometimes performed in spring, sometimes in June, but these are not desirable periods.—Anchor budding is a new method, which has some advantage over the old process. Instead of making a cross incision so as to form a T, cuts are made from the upper end of the vertical incision at a slight angle, so that the whole is shaped like an anchor ϕ . The bark may be more readily raised from the stock than in the old method. Mr. C. G. Paige, of Washington, D. C., recommends this method as the best.

BUDE (BUD.EUS), GUILLAUME, one of the most learned Frenchmen of the 16th century, born at Paris in 1467, died Aug. 24, 1540. He revived in France the study of the Greek language, which he had learned under Johannes Lascaris; was appointed by Francis I. royal librarian and master of requests; and it was chiefly by his counsels that the college of France

was founded.

BUDE LIGHT, the name given to the method of increasing the light of coal gas, or of argand burners of lamps, by introducing oxygen gas into the interior of the hollow flame. The process was contrived by Mr. Goldsworthy Gurney, of Cornwall, England, and called Bude light from the name of his residence. The materials consumed to produce light burn to waste in the ordinary hollow flame; only the outer portion of this is exposed to the oxygen of the atmosphere, and the gases in the interior are carried off only partially consumed. By directing a current of oxygen gas upward through the internal cavity of the flame, all the gases meet the full supply of this element, and thorough combinations take place, with greatly increased vividness of light. This principle has been introduced into the English house of commons, with the most satisfactory results as regards economy and efficiency of the light produced, and its agreeable effects. The gas furnished to the city of London is of such inferior quality, that it is found well to purify it and improve its illuminating property by passing it through naphtha. Oxygen is produced by heating black oxide of manganese in retorts set in a furnace in a vault of the building; this gas is conveyed through pipes to a gasometer, from which extend other pipes, with a branch leading into the centre of each burner. The house of commons was formerly illuminated with 240 wax candles, placed in different parts of the apartment—an exceedingly ill contrived and expensive arrangement. By the adoption of the Bude light the expense is reduced \$, while the light is far more brilliant and agreeable to the eye, more nearly resembling daylight than any other artificial light. Even with the extra expense of the naphtha process, which is probably only necessary in the use of the London gas, the application of the oxygen is not attended with any increased expense, when the additional amount of light obtained without extra consumption of gas is correctly calculated. It is a process, however, that can only be advantageously conducted upon a large scale. According to the quantity of oxygen supplied, the color of the light may be made to vary from the most perfect white to the red hue.

BUDGELL, EUSTACE, an English writer and friend of Addison, born in 1685, at St. Thomas, near Exeter, died in 1736. He assisted Scele in the composition of the "Tatler," and Addison in the "Spectator," where his contributions are distinguished by the signature X. In 1717, Addison obtained for him the place of comptroller general of the revenue in Ireland. He lampooned the Irish viceroy, and that remained of his fortune in the South see scheme. Soon after this a legacy of £2,000 was left him in the will of his friend, Dr. Tindal; but Budgell was accused of having interpolated this passage into the will, and the legacy was annulled. He finally ended his life by leaping from a boat into the Thames.

BUDGET (Fr. bougette, a bag), an official statement respecting the annual income and expenditure of a nation. In the parliamentary parlance of England the term refers to the financial statement of the chancellor of the exchequer. As a matter of mere amount, the greatest budget ever proposed was that providing for the British expenditure during the late Russian war, at the rate of \$425,000,000

per annum.

BUDGETT, SAMUEL, an English merchant, as eminent for piety as for business talent, born at Wrington, July 27, 1794, died in Bristol, April 29, 1851. The son of a trader, he received little education at school, but began early to receive in his father's store lessons for his future practice. At 7 years of age he removed with his parents to Kingswood, and 2 years after to Coleford, where he began to display his mercantile predilections, and, with a habit of mind which always remained to him of deducing general principles from particular facts, inferred from an incident that self-interest is the mainspring of human actions, and determined in all his future dealings to be able to present a case which should convince men that their interest lay in purchasing from him. He began his apprenticeship in a commercial house in 1809, and at the age of 22 years went into partnership with his elder brother at Kingswood Hill. The energy of the new merchants, and the fact that their business was conducted on the system of cash payments, gave them rapid and sure success, and they soon had several establishments in Bristol, dependent upon the central one at Kingswood Hill, and were among the most extensive general merchants in the western part of England. In 1885 the elder brother retired from the firm, and the business was prosperously continued by Samuel Budgett till his death. He was an earnest member of the Weslevan church, and was distinguished for his unvarying religious character, and for his admirable and Christian management of the

mercus men in his employ. Though as a ester he required zeal and industry, and though an idle hand was sure of immediate dision, yet he was familiar in intercourse with his men, interested himself in their moral welfare, distributed regular rewards for punctual stendance, invited them all to supper at ness fete with dinner, tea, and athletic and mithful games. The habit of assembling all hands for daily prayer existed in his establishment from the beginning.

BUDNAUS, or BUDNY SIMON, a Polish divina, died in 1584, the founder of an early Protestest sect, which denied the divinity of Christ, and which disseminated its theories in Lithuania, Russia, Poland, and various ster sethern countries. His followers were alled after him the Budnmans, but subsequenth he and they coincided with the Socinians. He Polish translation of the Bible was publish-

din 1579.

BUDOS-HEGY, a mountain in the E. part d Imagivania, belonging to the Carpathian mgs. It rises in the form of a steep, isolated to the height of 7,840 feet. On all sides dis base lie valleys, and for some distance up is ded with dense forests. It has numerous sterns, which exhale sulphureous vapors.
BUDUN, 8 deities of Ceylon, who are be-

lived to have begun as insects, and to have arrived at divinity through many transmigrations. BUDWEIS, or BUDWITZ, a fortified town of Bohemia, on the Moldan; pop. 8,780. It contains scathedral, a handsome council-house, several institutions of learning, flourishing manufac-teries of woollens, muslins, damasks, &c. The zilwsy which connects the town with Linz was the first one built in Germany.

BUEL, JESSE, an American agriculturist, born at Coventry, Conn., Jan. 4, 1778, died Oct. 6, 1839. He learned the trade of a printer, and established the "Albany Argus," a journal which has had a powerful influence upon the politics of New York. Mr. Buel closed his connection with it, however, in 1820, and retring to a farm in the neighborhood of Albany, on the verge of that elevated and sandy pon the verge on the verge of t sectedy, devoted himself to agriculture. The had which he had chosen for his residence, as with tract of a similar character surroundk had been found almost worthless under the system of cultivation hitherto pursued; but by fartilizing substances appropriate to the soil, and by deeper and more perfect tillage, he not only made it one of the best farms of the state, but gave an example of great value to others. He requestly a member of the state legislature, and at one time had a seat on the bench of the compy court, from which he derived the title of judgs, by which he was generally known. In 1894 he commenced the publication of the "Albany Cultivator," which he edited for 6 pertent information upon agriculture in all its

branches, and the mechanical arts accessory to it. He wrote also the "Farmers' Instructor," and the "Farmers' Companion." In addition to these publications, he delivered an immense number of addresses upon one or another branch of his favorite subject in almost all parts of the United States.

BUEN AYRE (Bonaire), a small, irregularly shaped island in the Dutch West Indies, used as a penal depot; pop. about 2,000, † slaves. It lies N. E. of Curaçoa, about 30 miles distant. It is a highland, sloping to the S. W., on which side there is a very good roadstead. The principal trade of the island is in salt, of which about 65,000 to 70,000 bbls. are annually ex-

ported. Cochineal is also exported.

BUEN RETIRO, formerly one of the 2 great palaces of Madrid, built on an elevated ground at the extremity of the city. The first struc-ture was erected by Philip IV. under the guidance of his minister Olivarez, but large additions were subsequently made, with more regard to splendor than congruity. During the regard to splendor than congruity. During the invasion of Spain by the French, in 1808, the Buen Retiro was selected by them as a commanding position from which to terrorize Madrid, and the result was its ruin.

BUENA VISTA, a hamlet in Mexico, 7 miles S. from Saltillo, in the state of Cohahuila, famous for the battle fought near it, Feb. 22 and 23, 1847, between the American army under Gen. Taylor, and the Mexican forces under Santa Anna. Gen. Taylor had defeated the Mexicans at Palo Alto and at Resaca de la Palma. had forced the surrender of Matamoras, and stormed the defences of Monterey. He had occupied Saltillo, but was now acting on the de-fensive, and on Feb. 20 was encamped at Agua Nueva, 18 miles S. from Saltillo, when he learned that Santa Anna, at the head of 20,000 men, was in front of him, 20 miles distant. By 2 routes it was possible for the Mexican general to gain the rear of the Americans, and intercept their supplies and communications. Gen. Taylor, therefore, on the 21st reluctantly fell back to the strong position of Buena Vista, a section of the valley which extends from Saltillo to Encantada, and which ranges from 21 to 4 miles in width. Rugged mountains more than 1,000 ft. in height, and inaccessible to any but light troops, enclose it on either side. The valley is crossed by a series of deep ravines cut by torrents flowing from the mountains in the rainy season, and is traversed lengthwise by a road which winds along the line of drainage and over the projecting points of the ridges. It becomes a defile 11 mile S. from Buena Vista at Angostura, immediately S. E. of which is a broad plateau set amid a system of narrow and difficult gullies. On and around this plateau was fought the battle of Buena Vista. The American force was less than 5,000 men, while the Mexican army was probably 4 times that number: but the features of the ground were such as nearly to paralyze the artillery and cavalry of the latter, and to prevent its infantry from deriving all the advan-

tage of its numerical superiority. Gen. Taylor returned a short answer to a summons to surrender, his line of battle having been already formed. A strong battery was posted on the road at Angostura, supported by 8 regiments on the crests of the nearest ridges. One regiment, with 2 guns, was thrown westward across the streamlet, to prevent any flanking movement of the enemy in that quarter. Two regiments of skirmishers occupied the extreme left, near the base of the eastern mountains. One regiment with 8 guns was advanced upon the plateau; and in the rear of the plateau the remaining force, consisting of 2 regiments, 2 squadrons of dragoons, and 4 guns, was kept in reserve. The battle began by a shell from a Mexican howitzer, and a rapid attack by the light troops of Ampudia upon the American skirmishers on the left, with a view of gaining the eastern heights. This a view of gaining the eastern heights. This was the only engagement during the afternoon; and at night Ampudia had succeeded in posting himself upon the summit of the ridge, while the American regiments were withdrawn to the plain. Meantime Gen. Minon, with a strong brigade of cavalry, having passed to the rear, Gen. Taylor regarded Saltillo as endangered, and repaired to that place during the night to complete his arrangements for its defence. The orders of Miñon, however, were only to fall upon the Americans in their retreat, which Santa Anna was confident of forcing the next day. At dawn of day the battle recommenced, by an attempt of Ampudia to push the advantage which he had al-rendy gained. Both the American and Mexican detachments on the left had been reenforced; and after a brief interchange of musketry the Mexican skirmishers moved across the side of the mountain to gain the American left and rear, but were considerably harassed by a few shells thrown from a great distance from an advanced American position on the plateau. Santa Anna soon after organized a general attack in 8 powerful columns, intending for the forces of Ampudia to sweep down from the mountain at the same time. Pacheco, at the head of one column, ascended the plateau against 2 regiments of volunteers, who, galled at the same time by a flank fire from a heavy battery, after a stout resistance broke and fled. The whole fire of Pacheco's column and the Mexican battery was then concentrated upon an American battery of 8 guns, which had to be withdrawn with the loss of 1 gun after every man and horse at that piece had been killed or disabled, and when the other pieces were in not much better condition. Pacheco's masses now effected a junction with Lombardini's corps, which had advanced at the base of the eastern mountains, and with Ampudia's light division, which had pressed down from the slope, and their combined strength completely turned the American position, and put the whole American force on the left to flight. Meantime Mora y Villamil had led the third column of attack against Angostura, but the American battery opened upon it with such terrific rapidity and effect, that the whole immediately thrown into confusion area Pacheco attempted in vain to small American force completely fr teau, being successfully resisted by a volunteer infantry, a squadron of drago 6 pieces of the regular artillery. The or this point formed no small part of the Obliged to desist from their attempt down the plateau, the Mexicans under the tion of a powerful battery began to sweet the base of the mountain to the In this posture of the battle G rived on the field from Saltillo, two chi mand having been held in his absence Wool. On the left, 4 American region in full retreat, and the whole that quarter was advancing. mediately took up his position on the and advanced 2 regiments of infantz supported by artillery and dragoons, di face of the Mexicans. Without overwhelming odds against them, المنابعة of gallant riflemen advanced, firing v effect into the Mexican masses. with a shout the last ravine i tween them and the enemy, reap instant close in front of the hostile ... poured in their shot with additional till the enemy rolled back in confi the supporting forces. Meantime t cavalry, persisting in its attempt w a American rear, had skirted the mounts to the vicinity of Buena Vista. It was by the American dragoons, but the latt called away to operate on the pla hastily returned and attacked 2 u American regiments, and in the furio which succeeded, Col. Yell was kille enemy escaped in season to avoid the which had a second time appeared. same time a new attack made upon the can front by a fresh brigade of Mexican was repulsed. Gen. Taylor now ordered bined attack upon the enemy's right fla the eastern side of the valley, whi immediately carried into effect. The immediately carried into effect. ade and musketry were directed with a skill and vigor that the routed masse enemy were driven back upon the m The route to the Mexican rear was in d being intercepted, and the destruction whole Mexican body in this quarter, c than 5,000 men, seemed impending, white flag was borne from Gen. Tayl sition, and orders were given to stor Three Mexican officers having approac American lines for the apparent pur conference, Gen. Taylor sent an A officer to communicate with Santa Yet the only result of this manœuv that it enabled the endangered Mexican left to make good their escape to the s the plateau. The conference proved d and the Mexican forces now prea final struggle for the victory in a

of attack, led by Gen. Perez. The whole Mexican strength, full 12,000 men, advanced up the crest of the plateau in a blaze of mushetry. They came on, unchecked by the fear-fal discharges of artillery which swept through then driving the volunteer regiments in confusion and disorganization; and under their stem of shot, Clay, McKee, Hardin, and other American officers fell mortally wounded. The stillery fell back as their pieces recoiled, keeping up their fire upon the advancing Mexicans, and striving to hold them in check until succor should arrive from the left and rear. In this terrible and unequal contest some of the Amerion pieces had been already captured, when the tinely arrival of the other batteries saved the day. It was by the united action of all the American artillery in the field that the Merican advance was at length stayed after the lottest part of the battle. Yet the American made no advance in turn, and when night Lithey held only a corner of the plateau, almost the whole of which they had possessed in the morning. They lay on their arms all night, king every preparation to receive a renewed stack, but in the morning Santa Anna had merested to Agua Nueva. The loss of the Mexissas, in killed and wounded, was about 2,000; that of the Americans, 746. The American samy engaged at Buena Vista consisted in large per of volunteers, most of whom had no mil-iary experience; and on account of the une-per daring and composure displayed by them st different times the battle would have been lest again and again but for the heroic conduct

of the regular artillery.

BUENA VISTA, a south-west county of California, separated from Tulare co., April 80, 1855. The Coast range forms its western boundary and the Sierra Nevada traverses its eastern part, the two ranges meeting at the southern extremity of the county. A vast extest of surface between these ridges is overgrown with rushes, and is frequently inundated. On the northern border lies Tulare lake, and in the south-western part are Kern and Buena Vista lakes, the country around which is said to be of great fertility. Kern river is the

Principal stream.
BUENAVENTURA, or SAN BUENAVENTURA, suport town of California, situated near the my between Santa Barbara and Los Angeles conties, on Santa Barbara channel. It was founded about 1782, was formerly a missionary station, has a tolerably good harbor, and is surrounded by a rich, beautiful country, remarkably prolife in many varieties of fruit.

BUENAVENTURA, a town in the department of Cauca, New Granada. It is situated on the small island of Kascakral, near the mouth of the river Dagua, at the head of the The inhabitants are mostly by of Choco.

Meroes or mulattoes.
BUENO DA SYLVA, BARTOLOMEU, SURmed Armanguera, or Great Devil, a Braziladventurer of the 17th century, who fol-

lowed the traces of a previous adventurer, Manoel Correa, in search of the gold mines of Goyaz. He died before he could consummate his conquest, although he had satisfied himself as to the existence of the new Eldorado, and even awed some of the savage inhabitants into submission by threatening to burn their lakes and rivers, convincing them of his ability to do so by exhibiting brandy in a state of ignition on a tin dish.—After his death his ambitious designs were carried out by his son Bartolo-MEO, who equipped a regular exploring expedition, under the auspices of Governor Menezes. This failed, but in 1726 he undertook a second expedition at the head of an army of bandeiras or fillibusters. He now identified the places which his father had visited, seized some of the treasures of Goyaz, and returned to St. Paul with \$15,000 in gold dust. This induced the government to appoint him lieutenant-general and regent of the new province. He finally died in the greatest poverty.

BUENOS AYRES, a republic of South

America, formerly a constituent of the Argentine confederation or republic of La Plata, but now maintaining an independent, though somewhat anomalous position. The state lies between lat. 33° and 41° S., and long. 56° and 71° W.; is bounded N. by the states of Mendoza, San Luis, Cordova, and Santa Fé, and the river Parana; E. by the river La Plata and the Atlentic access. the Atlantic ocean; S. by the ocean and Patagonia; W. by the Andes, which separate it from Chili. The state is of irregular form, but has an average breadth from N. to S. of 450 miles, and an average length from E. to W. of about 750. The eastern portion, lying on the ocean and the Plata, is fertile and well watered; the Salado, an affluent of the Plata and its branches, irrigate its surface. Further west and south-west it stretches off toward the Andes in those vast plains, known to the inhabitants as pampas, on which for hundreds of miles no hill, rock, or tree varies the dreary uniformity of the surface. Here, in the absence of water-courses, the soil is sandy, and often barren, and covered with a saltish efflorescence. Occasionally salt lakes make their appearance, and their exhalations, with the glitter of the salt-bestrewn plains, contribute to produce the mirage which, as in eastern climes, deludes the wayworn traveller with visions of fair fields and flowing streams. From these sandy plains a burning wind, much like the sirocco of the East, sweeps over the eastern part of the province, scorching vegetation, and parching the skin like the breath of a furnace. In the south-east part of the state, and on its western boundary, there are mountains of considerable height, the latter forming a part of the Andes. The principal rivers are the Salado in the east, the Negro and the Colorado in the south-west, and the Desaguadero in the west, which discharges into a salt lake called Urre Lauquen, in the interior. Beside this lake there are many salines scattered over

the state, which, in the rainy season, become lakes, but during the summer form extensive salt The climate in the northern part is marshes. mild and pleasant, the temperature varying from 40° to 90° F. in the year. Tropical fruits flourish to some extent in the vicinity of the city of Buenos Ayres. In the south it is colder, and ice and snow occasionally appear; but the country generally is very healthy, and the air pure and dry. The S. W. wind is usually accompanied with thunder, and during its prevalence frequent hurricanes occur. The vast pampas furnish abundant and luxurious herbage for immense herds of wild horses and cattle, the skins, hides, horns, hair, tallow, and beef of which form the chief articles of foreign export of the state. Salt is produced at some of the salines, and the city of Buenos Ayres was for many years supplied from the lake of Urre Lauquen, distant 450 miles. Since the restrictions have been removed from commerce, it has been found cheaper to import it. The country produces saltpetre, clay, iron, cotton, rice, grain, sugar, tobacco, flax, hemp, wool, ipecacuanha, fruit, Among the wild animals are jaguars, martens, foxes, tapirs, &c. Llamas, horses, cattle, sheep (vicuna), are domesticated. Serpents (including many poisonous species) abound. The most remarkable birds, are the ému, the black-necked swan, &c. In 1856 the number of cattle was 4,502,090, of horses 2,196,663, and of sheep 7,966,725. — Buenos Ayres shook off the Spanish yoke in 1810, and in connection with the adjacent states formed a confederation, known as the republic of La Plata, or the Argentine republic. But the ambition of the state of Buenos Avres to secure to itself the lion's share of the advantages of a confederation, led to repeated changes, and the states were sometimes isolated and independent republics, or rather anarchies; at other times confederates like the United States; at others still, merely in a state of alliance. During the administration of Rosas (1835-'52) they were virtually allied, though not without occasional rebellions, and his efforts were directed to the aggrandizement of the state and city of Buenos Ayres, at the expense of the other states and countries of the confederation. The final separation from the Argentine confederation took place in 1858. A new constitution was framed in Sept. 1854, liberal in its general tendencies, establishing the freedom of the press and the independence of the judiciary. (See ABGENTINE CONFEDERATION.) The predominant religion is Roman Catholic, but all creeds are tolerated. The national independence of Buenos Ayres was recognized by several countries in 1855, most of which, however, have since withdrawn this recognition, and now maintain diplomatic relations only with the Argentine confederation. Dr. Valentin Alsina has been governor of Buenos Ayres since 1857. Receipts in 1855, \$3,000,-000; in 1856, \$3,400,000. Expenditures in 1854, \$2,500,000. Public debt, with interest, domestic, \$925,000; English loan (£1,750,000), \$8,-

Oct. 1855, is probably the most correct.

BUENOS AYRES (Ciudad de Nuestre Señora, Ciudad de la Trinidad), capital a the above-described state, situated on the 8 W. shore of the estuary called the Rio de Plata, about 150 miles from its mouth. estuary is here about 86 miles wide. 1 85' S., long. 58° 22' W. The plan of the regular, and the streets are laid out in source about 500 feet, and paved with granite from the island of Martin Garcia, opp The houses of the native inhabitance of brick, and are usually of only a single s in height, but enclose a court after the S fashion. Little or no wood is used in the struction of these houses. The dwthe foreign residents are usually three su height, and resemble similar residences in tue country. The principal public square the Pl del 25 de Mayo, has a monument honor of South American independence; m adorned with fountains, and surrounded by fin public buildings, among which are the cathedral one of the largest and richest in South America the bishop's palace, the hall of justice, the polic office, &c. Beside the cathedral there are 1 other Catholic churches, and 8 Protestant, wie an Episcopal, a Presbyterian, and a Meth-intended for foreigners. There are 2 m and 2 nunneries. There are 2 colleges, a seus college attached to the church of our Lady o Mercy, and a college for young men, attached to the church of St. Francis, and which might, with propriety, be called a university, since it in cludes also a department of natural history with a very fine museum, an observatory, normal school, a mathematical school, and a school of painting and drawing; its library contains over 30,000 volumes. There are seve literary and scientific societies in the city among which may be named a philosophical, a mathematical, and a medical society; an asso ciation of jurisprudence, and an agricultu society; that of the friends of the natura sciences is the most important. There are several journals published at Buenos Ayres which are conducted with ability, but with a strong partisan bias. One of them, La Prensa, give occasionally interesting accounts of the new settlers, mainly from Germany and Switzerland, to many of whom the great rivers of the Argentine states offer greater attractions than the inaccessible inland districts of Brazil. The charitable institutions are, a general hospital, and a foundling hospital. The fort is an imposing structure, and contains most of the military effect. There is also in the city a military depot, called the Retiro, capable of receiving a 1000 soldiers. The hall of representatives, built in imitation of the capitol at Washington, d the custom house, are the only other public buildings particularly worthy of notice.—The commerce of Buenos Ayres is rendered difficalt by the shallowness of the Plata in the visity of the city, and the want of a good and commodious harbor. Vessels drawing more than 12 feet of water cannot come metre than 6 or 7 miles, and their cargoes must be brought to the city on bullock cars, or by lighters. The south-eastern winds ager vessels in the harbor, by the violent and which they create. The inner harbor is and only large enough to accommodate the costing trade. Yet with all these drawlacks the commerce of Buenos Ayres, as the principal port of entry for the states of the Argentine confederation as well as for Paraguay, is large and constantly increasing. The inland trade carried on between Buenos Ayres and Peru and Chili, is very considerable. The finest tobaca, sugar, wax, Paraguay tea, &c., are brought from the interior, and the foreign trade is daily becoming of greater magnitude. The tonnage which entered the port in 1843 was 105,238, and that which cleared, 84,117. In 1849 the degrances were 110,984 tons, of which 22,469, cerances were 110,984 tons, or which an, or i, were for the United States. Vessels entend in 1855, 619; in 1856, 607; cleared in 1855, 332 with freight, and 260 in ballast; in 1864, \$56 with freight, and 193 in ballast. We shioin also a table of the trade of 1855 with the different parts of the world:

Imports from Great Britain	44 960 000
Prace.	2.700.000
Merthern Europe	
Charles, the Mediterranean, and Spain.	. 648,000
United States	. 1,080,000
Resil and other countries	. 1,188,000
Total,	\$11,894,000
Experie to Great Britain.	. \$8,289,454
United States	. 8,244,844
Prace	. 2,181,862
Belgium	. 1,810,716
	. 1,859,182
<u> </u>	. 828,884
•••••••••••••••••••••••••••••••••••••••	. 901,103
hail	. 925,060
Qui.	298,594
	. 9583.707
	. 110.201
Other equatries	. 52,914
Total	£15 980 988

Exports from Buenos Ayres and Uruguay to Great Britain:

From Jan. 1, to May Bides, number	1, 1857. 25,458 8 150	Same period, 1858. 4,915 1 904
1994' CA!	8,150	1,294

Imports from Great Britain into Buenos Ayres:

imary 1 to April 1, 1857	3
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Exports from Buenos Ayres and Argentine republic (through Buenos Ayres) to France in 1857......

\$2,998,558 Imports from France to Buenos Ayres, &c., 1857. 8,695,091 In 1854, owing to the anarchical condition of the country, the clearances for the United States were only 12,914 tons, and the entries from that country, 10,356. In 1857, with a more quiet and peaceful condition, trade had revived, and the commercial intercourse with the United States, which had formerly been carried on mostly in foreign bottoms, was almost entirely conducted in American vessels. The tonnage of that year, entered at the port from the United States, was 28,235, while that which cleared for the United States was 16,872, showing an increase of tonnage entered from the United States of more than 1 in 8 years. The imports of Buenos Ayres from the United States the same year were \$1,818,807, while its exports to this country were \$2,784,478. She received from us lumber, bacon, lard, flour and other, breadstuffs, rice, sugar, hops, spirituous liquors, spirits of turpentine, household furniture, carriages, boots and shoes, nails, ironware, drugs, cotton goods, paints, tea, spices, matting, cordage, twine, and a trifling amount of manufac-tured tobacco. Her exports were almost en-tirely confined to the raw materials of commerce, as her manufactures consist only of the most simple articles. The following table exhibits the principal exports to the United States in 1857, with the value of each:

Articles.	Quantities,	Value.
Specie, gold		\$10,400
Copper and tin, in pigs and bars		80,851
Leather tanned and dressed, doz skins	1,851	9,189
Hatters' furs		25,962
Raw hides and skins	••••	1,782,671
Hair unmanufactured		191,497
Wool, pounds	5,758,519 801	694,786
Nutmegs, "		558
Tallow, "	16,288	1,109
Rags, "	91,818	1,705
Unmanufactured articles		85,688
Total		\$2,788,880

The city is poorly supplied with water and fuel; the wells are all brackish, and there are few or no public cisterns; the river water is good, but is carried around in butts, and sold at a very high price. The wealthier citizens have tanks and cisterns on their premises, in which they collect rain water. The fuel is coal brought as ballast in English vessels, and the refuse wood from the fruit plantations established on the islands in the river, by the Jesuits, in the 16th century. From these plantations, covering over 20 miles of surface, the city is also supplied with fruits, and particularly oranges, peaches, and lemons. The procuring fruit and fuel from these sources is not unattended with danger, as the plantations are infested with panthers. The environs of the city are very beautiful, being occupied mostly by the country seats of the wealthy inhabitants. The climate is dry and bracing, and very healthy. Living is very cheap. Meats are especially low, the best beef being sold at

from 2 to 3 cents per pound.—The city dates from 1580, at which time it was founded by Don Juan de Garay. In 1776 it was made the seat of the viceroyalty, and in 1778 the port was partially thrown open by the Spaniards. The repeated reverses it has met with in the last 20 years have materially interfered with its growth and prosperity, rendering property insecure, and almost annihilating its commerce; but since 1852, its trade has greatly revived, and its population increased. Population in 1856, 101,000, and since then variously estimated from 100,000 to about 150,000; owing to the fluctuation of the foreign population, the French and English alone, numbering not less than about 25,000.

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BUFF, a mixed color, something between pale pink and pale yellow. It was adopted by the English whig party, in combination with blue, as their distinctive color; and, possibly in consequence of that circumstance, the whig party having been opposed throughout to all the measures of government which led to the American revolution, was chosen as the national uniform of the United States at the commencement of the revolutionary war.-BUFF LEATHER, a strong soft preparation of bull's or elk's hide, which was worn under the mail armor of the middle ages, to deaden the effect of a blow, which might drive in the pliable rings, so as to inflict a painful contusion. As armor fell into disuse, buff coats, which, if of the best quality, would turn a broadsword cut, and even a pistol ball, were often worn in lieu of complete steel, either with or without a cuirass and gorget of metal. The buff coats of the time of the commonwealth were often lined with white or tawny satin, and splendidly laced with gold or silver. The name is, of course, derived from its color. Modern buff leather, of which soldiers' crossbelts and other accoutrements are ordinarily made, is for the most part made of common buckskin.

BUFFALO, the name of 2 species of the true oxen, as distinguished from the bisons, to which they bear at best but a faint resemblance, though they are included with them in the genus bos (Linn.) The general characteristics of the buffalo are conical horns, inclining successively outward, downward, backward, upward, and forward, with their tips on a plane above and a little in front of the top of the forehead; forehead convex, and longer than broad; the intermaxillary bones elongate, shelving back, and giv-ing prominence to the nasal bone. This animal must on no account be confounded with the American bison (bos Americanus), which is almost universally called the buffalo, as its furry hides, prepared by the Indians, are called buffalo The 2 species of the true buffalo are the bos bubalis (Linn.) of India, and the bos Caffer (Sparm.) of South Africa. They are called, on both continents, simply the buffalo, but are separated zoologically as the Indian and Cape buffalo. In India, the buffalo is again subdivided into the tame and the wild, although

they are both of the same species. Mr. B. H. Hodgson, who has done much for the zoologi of British India, thus speaks of them: "T bhainsa, or tame buffalo, is universal in India. The arna, or wild buffalo, inhabits the margins rather than the interior of primarval forests. They never ascend the mountains, and adhers, like the rhinoceros, to the most swampy sites of the districts they inhabit. There is no animal upon which ages of domesticity have made so small an impression as upon the buffalo, the tame being still most clearly referable to the wild ones, frequenting all the great swampy jungles of India. The arna ruts in autumn. gestating ten months, and produces one or two young in summer. It lives in large herds, but in the season of love the most lusty male lead off and appropriate several females, with which they form small herds for the time. The wild buffalo is fully ‡ larger than the largest tame breeds, measuring 104 feet from snow to vent, and 6 or 61 feet high at the shoulders, and is of such power and vigor as by his charge frequently to prostrate a well-sized elephant. It is remarkable for the uniform shortness of the tail, which does not extend lower than the hock, for the tufts which cover the forehead and knees, and lastly for the great size of its horns. They are uniformly in high condition, so unlike the leanness and angularity of the domestic buffalo even at its best." The arms variety is known to naturalists as the bos armi. Its horns, which grow out horizontally from either side of a flattened frontal bone, rise in a regular crescent upward and backward until near the point, when the tips, which are nearly equidistant with the bases, turn slightly forward. The bases of the horns, which are fisttened and deeply corrugated in irregular rings through \$ of their length, and smooth only at the points, often measure each upward of 18 inches in circumference, while their length, taken along the outer curve, has been known to exceed 5 feet in either horn, and to include a distance of 10 feet from tip to tip. In no respect does it differ from the bison more than in its covering, which consists of smooth, short, thin hair, resembling the bris-tles of a hog more than the coat of the ox family. It is much addicted to wallowing in the mud, is a fierce and vindictive animal, and in its native jungles is more than a match for the Bengal tiger, which never dares to attack it unprovoked. This buffalo was introduced into Egypt, Greece, and Italy during the middle ages. Its great strength makes it peculiarly adapted for draught; its milk is good, its skin highly valued, but its flesh is much inferior to that of the ox. It is a singular fact that it prefers marshy and even malarious places and coarse plants.—The Caffer or Cape buffalo of Africa has very large, black horns, placed close together and flattened at the base, broad, rough, and sinuously ringed, covering the whole front with a sort of horny helmet, with a smooth tip curved upward and

BUFFALO

inward. Its horns are more horizontal in position than those of the arna, which are sometimes elevated 2 feet above the frontal bone. It has pendant ears and dewlap, skin with derk, stiff hairs about an inch long, and though d massive proportions and extremely ferocious, has neither the height nor the activity of its Indian congener. Neither species have either heap or mane, which at once distinguishes then from the bisons. The Cape buffalo is a mire of all South Africa; it congregates in immense herds, but the old bulls, which become quite gray and are often almost destitute of hir sensumes adopt solitary habits, when they grow very morose and savage, attacking both nes sel animals in mere wantonness, and whee killed, trampling and kneeling on the areass and crushing them with their massy has and frontlets, until every bone is broken. Gerlen Cumming, in his South African wankings, gives many accounts of this powerful ad avage brute, which has not, however, the pour of defending himself against the lion, as in Indian relative has against the tiger, but, m the contrary, often falls a prey to him by men attack. This animal also delights to wallow in the mire, like a hog, and when heated by hunting, plunges into the first water-pool, in which he wholly submerges himself, allowing ealy the extremity of his muzzle to protrude among the water plants and floating leaves of the symphese. All travellers dwell on the loud bellow which he utters in the death agony.-There is an Indian wild bull (bos gaurus), little known, which appears to be intermediate be-twen the bison and buffalo. General Hardwicks and Captain Rogers describe it as a genuim ball, neither bison nor buffalo; but Major Walter Campbell, the author of the "Old Forest Ranger," who gives a full description of this me snimal, which he calls the jungle roolgha, makes it clearly a bison. From the character of its horns, which resemble those of the Cape bushlo in form, though they have not the horny helmet over the brow, and of its hump, reported by hump-ribs, and of its mane, it is uned that, on further investigation, it will be devated into a distinct genus. (See Bison.)
BUFFALO, a city and the county seat of Eric ea, H. Y., situated at the eastern end of Lake Ria and at the head of Niagara river, lat. 42° W. Long. 78° 55' W. It was founded by the Helland Land company in 1801, and during the war between the United States and Raymed, in 1814, was burned by a force of In-diam and British. The city was laid out by Joseph Ellicott, upon a plan which has been greatly admired. The streets are wide and straight; greenally cross each other at right angles. A few of the side streets, however, enter the minimal avenue of the town, Main street, at an age of 45°. These latter streets, crossing the then at their points of intersection, form a by number of places or squares, give variety to the outlines of the city, and destroy the mesotrony which would have been produced by

a rigid adherence to a rectangular plan. The city is well paved, is lighted with gas, and is supplied with water from the Niagara river. The site is a plain, which, from a point about 2 miles distant from the lake, slopes, gently to the water's edge. The uplands command an extensive prospect of the lake and river, and afford beautiful situations for suburban residences. The city has no park, but there are several small public squares. Buffalo is an instance of the rapid growth so often seen in American towns. In 1814 it was a hamlet of 200 houses. The following table shows the increase in population from the year 1810:

79 .

1810. 1820. 1880.	1,508 2,095 8,658	184018,218 184584,656 185049,764	185574,214 1858 (est'd) .90,000

The increase in taxable property during 5 years has been as follows:

1858	.\$22,837,800	1856
1854	. 29,978,509	1856
1855	. 88,087,711	
Matel dabt Des	01 10K4	ATO / OFF 00

Buffalo was incorporated by act of the legislature in 1832. It is divided into 13 wards, each of which is represented in the common council by 2 aldermen. The legislative powers are vested in one body, the common council. The mayor is the chief executive officer. He has the veto power, and measures to which he refuses his assent must receive a 3 vote in the council in order to be passed. He is the head of the police; his appointments must receive the approval of the council, but he has, in certain cases, a summary power of removal. Those departments of the executive which are connected with the finances, schools, public works, and law, are independent bureaus, and the officers are elected by the people. All of these officials hold their places for 2 years. The fire department is composed of 18 engine, 8 hose, and 2 hook and ladder companies. The chief engineer is elected by the members of the department, subject to the approval of the common council.—For educational purposes the city is divided into 82 districts, in each of which there is a school. All children who reside in the district may attend without charge. In addition there is a school for colored children, and a free academy called the central school, where instruction is given in more advanced studies. Candidates from the district schools are admitted into the central school, after being subjected to a thorough examination. Two hundred and twelve teachers are employed in these schools. In 1856 they were attended by 19,098 pupils, the average daily attendance being 7,878. An officer called the superintendent of schools is at the head of this department, who appoints the teachers. This educational establishment is in every respect most admirable, and the cost of maintaining it, during 1858, is estimated at \$115,000.—The climate of Buffalo is more equable than that of any other American city in the same latitude. The winter and spring months are boisterous,

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but the heats of summer are tempered by the lake winds. Owing to the salubrity of its climate, and an admirable system of sewerage, Buffalo will compare favorably with any other town in point of healthfulness. The yearly mortality is stated to be in the proportion of 1 in 50. -The United States government has lately built a fine edifice for a post-office, custom-house, and court-house. The state is now (1858) constructing a large arsenal, and the city contains 4 fine market houses; but the other public buildings are not important. The private architecture is creditable; there are many handsome banks, stores, and dwellings. The number of dwellings in the city is estimated at 10,618, valued at \$21,520,100. There are 57 churches in Buffalo, estimated at about \$1,000,000: 10 Presbyterian, 6 Episcopalian, 8 Methodist, 6 Baptist, 14 Catholic, 1 Unitarian, and others. St. Joseph's cathedral (Catholic), and St. John's and St. Paul's churches (Episcopal), are unusually beautiful edifices. St. Joseph's is in the decorated Gothic style; its shape is cruciform, and the eastern front is flanked by 2 -lofty towers. It is built of blue stone, with dressings of white sandstone, and is not yet (1858) entirely finished. This church contains a stained glass window, lately made at Munich, which is the finest specimen in this department of art in the country. St. John's church is a simple parallelogram in the style of the transition from the early English to the decorated Gothic, with a square tower upon the northwest corner. It is built of blue limestone, and is worthy of notice for having an open timber roof. St. Paul's is in the early English style; the material is red sandstone, and the building is very remarkable for its picturesque appearance and for the variety of its outlines.—The university of Buffalo was chartered in 1846; the medical department is the only one in operation. This school has a fine building, and is under the charge of a corps of highly accomplished teachers. The Young Men's association is a society of citizens formed for literary purposes; any suitable person may become a member upon making application. The yearly fee is \$3. It has a library of 9,850 volumes, and the reading-room contains 57 newspapers and periodicals; a considerable collection of shells and minerals has been made, and some steps have been taken toward the establishment of a gallery of the fine arts. During the winter a series of popular lectures are delivered before this association by distinguished gentlemen from different parts of the country. The German Young Men's association, and the Young Men's Christian union, are similar institutions; some religious qualification is necessary in order to procure admittance to the last. The Buffalo procure admittance to the last. female academy is liberally endowed; it is delightfully situated, and is now in a very flour-ishing condition. The Forest Lawn cemetery is situated in the suburbs of the city, and contains 75% acres of land. The principal charitable institutions are the Buffalo orphan asy-

lum, hospital of the sisters of charity, orphan asylum (Catholic), Buffalo gene pital, children's aid and reform societ: German, Scotch, English, and Irish reall have societies for the relief of t countrymen. There are 7 lodges of chapters of royal archmasons, a gran mandery of knights-templars, 2 tem organizations, and 6 lodges of the order fellows. There are 9 banks of issue, aggregate capital of \$2,688,091 (Dec. 81 8 savings banks, and a trust company. Buffalo had 265 manufacturing estable mploying 6,848 persons, having a vested of \$4,000,000, and producing \$10, worth of manufactures. In 1857 the nu manufactories is stated at 450. Ship t for which Buffalo possesses many faci extensively carried on. In 1857 there ship yards, from which were launched tons of shipping, of the value of \$1,1 Buffalo is the western terminus of canal, to the construction of which owes its prosperity. It is likewise the pal western station of the New York railroad. The other railroads are the and State Line, which connects with the of Pennsylvania, Ohio, and other wes the Buffalo, New York and Eric rail: ou connects with the New York and Erie at Corning and Hornellsville; and the and Lake Huron railroad, which in Great Western railroad of Canada. road is under contract which will make nection with Pittsburg and the coal Pennsylvania, and for the purpose of ing railroad communication it is now I to bridge the Niagara river.—The i business interests of Buffalo are those merce. It is the largest commercial the lakes. The harbor is formed by t falo creek, a small stream, which for one mile from its mouth. The ent protected by a breakwater upon the so of the creek, which is 1,500 feet long. water has likewise been constructed in river upon the north side of the creek, t a new and capacious harbor has been mu addition, there is a large number of basins for the accommodation of ships canal boats. The entrance to the has the approaches from the river are defe a small fortification called Fort Porter. on the heights to the north of t 1857, 242 vessels were owned this port, 80 steamers and 160 an aggregate tonnage of 91,9, tons \$3,640,950; 160,000 tons of shipping gaged in the trade of Buffalo, nearly entire lake marine. The number of and clearances of vessels to and from was 7,581; tonnage, 8,221,806. The imports by lake. was \$36.913. \$47,627,526; by railroad, (; (vuu. X a total of imports of over exports were about

are the chief articles of commerce. The following table of the grain, and flour reduced to wheat, received during the last 8 years, will show the extent of this trade:

188	185422,286,482 bush.
17,772,979 "	1855
300,280,404 "	185525,022,177 " 185626,946,560 "
15,997,986 "	1857 20,898,454 "

Buffile, however, is not a mere place of transhipment. The transactions in the grain writet are on a large scale. In 1857, 10,859,-400 bushels of grain were sold here. The trade with Canada is active; the aggregate value of exports and imports, in 1857, was \$2,259,748. The British government considand it of sufficient importance to justify the etablishment of a consulate. The immense iscuss of the grain trade called for increased failties for handling the cargoes on their arival Until 1844 the discharging of cargoes verefected in buckets; since that time it has her done by steam, which despatches in a few hours what formerly required whole days. There are now in Buffalo creek 12 elevators, with a capacity for storage of 2,230,000 bushels, dwating per hour 36,500 bushels. A new eleer, in course of erection, is estimated to store 25,900 bushels, and to elevate about 3,000 bushels and to elevate about 3,000 bushels per hour. The cost of discharging a cargo is cent per bushel. The elevators also possess facilities for loading canal boats.—Eight bully papers are published in Buffalo, of which are in the German language; 6 of the daily papers publish weekly editions, and there are il other weekly or monthly publications.

BUFFET (Fr. buffet) was formerly a little

BUFFET (Fr. buffet) was formerly a little sile spartment for holding china, plate, glasswre, and articles of virtu; it is now generally

merseded by the sideboard.

BUFFON, a French village, department of Otto-Por, canton of Montbard, situated on the Amançon, 11 miles N. of Semur. The seignory of this village belonged to the naturalist Buffon, for whom it was erected into a county. It has averal iron foundaries and forges. Pop. 405.

BUFFON, GEOBGES LOUIS LECLERC, comte de, a calebrated French naturalist, born at Montherl, in Bargundy, Sept. 7, 1707, died in Paris, April 16, 1788. He was the son of Benjamin Labra, counsellor of the parliament of Dijon, and was destined to occupy the same office. He mainted a good education at Dijon, and main raid progress in his studies, especially in mathematics and astronomy. At the age of 20 he made the acquaintance of a young English no-blemen (the duke of Kingston), who was traveling with his tutor, and agreed, with the permission of his father, to join them in their travels and studies. They visited together many parts of France, Switzerland, and Italy, during a period of 18 months. The spectacle of nature with visits he thus became familiar made a deep impression on his mind, presenting a strong contest to the most perfect of human works in the stirtly of its operations and the completeness of its productions. From this time he resolved

to devote himself to the pursuit of science. He visited London with his friends, and there pursued the study of the English language, and at the same time eagerly intent on improvement in his favorite branch of research. He there translated Newton's treatise on fluxions from the Latin, and Hales's "Statics" from the English, into the French language. The 2 manuscripts were presented to the academy of sciences of Paris, and favorably received; the 1st being printed in 1785, and the 2d in 1740, with the approbation of the academy. On March 18, 1739, he was elected member of the academy of sciences, and during the same year appointed director of the jardin du roi, now called the jardin des plantes. This appointment called his attention more exclusively to natural history, and diverted his mind from the abstract speculations of philoso-In lieu of philosophizing on the theory of creation, he resolved to continue the work so brilliantly commenced by Aristotle and by Pliny, in describing the organic and the inorganic forms of nature on our globe; and to surpass his predecessors in the allurements of style, and the rich variety of facts, as much as modern art and science surpass those of ancient Greece and Italy. With this view, he enlisted the cooperation of Daubenton in the anatomical and scientific portions of the work, reserving to himself the more external forms, habits, instincts, and geographical distributions of the animal kingdom. Daubenton and Buffon worked together diligently some 10 years, and in 1749, the first 8 volumes of the "Natural History" appeared; 12 more volumes following at intervals between 1749 and 1767. Few works have ever met with such success; the study of natural science, and particularly natural history, became universally attractive. Buffon's "Theory of the Earth" enlisted numerous admirers among the more imaginative readers of his works, while those of cooler judgment wondered how a man who had written the preface to the translation of one of Newton's works, could possibly put forth a theory of such a vague and speculative nature. In that preface Buffon wrote the following words: "The system of nature combines, perhaps, several principles; these principles are unknown to us, and their combinations are not less concealed. How is it possible, therefore, for man to flatter himself that he can unveil the mysteries of nature, with nothing to guide him but his own imagination?" And yet Buffon had little else than his own imagination, in addition to some scattered facts, to guide him in building up a theory of the foundation of the globe which we inhabit, and the numerous revolutions it has undergone in the course of ages. Buffon made the best attempt he could to form a theory of unity, and failed; but his attempt and failure will help other minds to soar into the higher spheres of thought, and reach more nearly to the final truth. His general views of the animal creation and the natural history of man were more successful than his "Theory of the Earth;" and, notwithstanding

the obscurity of his ideas with regard to "organic molecules," and "interior moulds of " in his theory of generation, his ideas of relation between form and substance were felt to be at least poetically true, in his own day, and they have since been demonstrated scientifically by the experiments of Flourens on the gradual appearance and disappearance of coloring matter in the bones of living animals.
"That which is the most constant and unalterable in nature," says Buffon, "is the type or form of each species; that which is the most variable and corruptible, is the matter or the substance which clothes the form;" and this has been experimentally proved by Flourens, in addition to the evidence of daily nutrition and loss of substance in every individual organism. His eloquent description of the gradual development of the human organism, and the concomitant unfolding of sensation and the faculties of thought and reason, is a masterpiece of observation and delineation never before equalled in its way, nor has it been surpassed. The infant learns by slow degrees to see and feel and hear distinctly, and to separate sensations and ideas, which arrive in a confused mass, into relative degrees of size and shape, distance, force, and motion; and this power of analysis and synthesis increases as the child develops into manhood or womanhood, until the highest powers have been attained of which the individual is capable; some attaining to colossal heights of genius at maturity, while others never grow beyond the stature of a dwarfed intellect; just as the body of one type of animal attains to the proportions of a lion or an elephant, while others, of like nature, never grow beyond the stature and the force of a domestic cat or a small pig. The body is developed slowly, and more slowly still the mind; and Buffon paints in glowing tints the process of unfoldment, which suggests to us the difference between the animal and the human powers of discrimination, reason, and progression; the difference between one man's mental development and another's, as the two pass through the animal degrees of infancy, to reach the human, and then stop at very different heights of the ascending scale. The first class of animals described by Buffon were the quadrupeds; the second, birds; and here, with regard to the animal kingdom, his labors ceased. The "History of Domestic Animals," published between 1758 and 1756, was particularly interesting to the farmer and the general reader. That of the carnivorous tribes and other wild species was published between the years 1758 and 1767. More than 3,000 species and varieties are there described. The "History of Birds" was published in 8 volumes, between the years 1770 and 1781. Daubenton then retired from the work, and Buffon obtained the cooperation of Guéneau de Montbeillard, the abbé Bexon, and The "History of Sonnini de Manoncourt. Minerals" was published between 1783 and 1785, and the "Epochs of Nature" in 1788.

The style is always good, and the ill rich with imagery, but the theor more and more hypothetical and v his ideas paved the way for his success. and Geoffroy Saint Hilaire, who have laid foundations of true science in these b investigation. He, more than they, in reader with a love of nature, and trai dry details of science into poetry and end of the sublimest kind. His mind was analytical and accurate as that of Cuv so keen in the perception of remote 1 between normal and abnormal types of or; as that of Geoffroy Saint Hilaire; but he more poetical views of truth and beauty either, and deeper intuitions of the laws of nature, physical, instinctual, and His works have been reprinted: in France, and rendered into all, or the languages of Christendom.—He HENRI LECLERO, born in 1764, who erectes monument to his father in the gardens Montbard, and who died by the guillotine ing the revolution.

BUG, Boug, or Bog, a river of Europrises in Galicia, and after a course of 300 during which it receives the waters of the chawetz, Zna, and Narew, it joins the last N. W. of Warsaw. It for boundary of Poland.—Also, the name of a sian river which empties into the estuary of Duieper. It is navigable from the sea to weesensk. Total length, 340 miles.

BUGARES, or BULGARH, a rel
Bulgaria, otherwise known as target from whom sprung the Paterini of Ita,
the Albigenses of Languedoc and l
The Bulgarii themselves were a b
Gnostic Paulicians of the East af
gamation with the Manicheans.
the necessity of infant baptism, and rep
Old Testament.

BUGEAUD DE LA PICONNERIE, 1 ROBERT, duc d'Isly, marshal of France. Limoges, in Oct. 1784, died in Paria, 1849. He entered the French army as a vate soldier in 1804, became a corp the campaign of 1805, served as suin the campaign of Prussia and Po -'7), was present in 1811, as 1 sieges of Lerida, Tortosa, and T was promoted to the rank of 1 after the battle of Ordal, in Ca first return of the Bourbons Con. L. brated the white lily in some de but these poetical effusions | ther contemptuously, he a 4.1 the Hundred Days, the party or and leou, sent him to the army of the Alps, so the m of the 14th regiment of the line. On the return of the Bourbons he retired to 1 to the estate of his father. At the time us invasion of Spain by the duke of Angoul offered his sword to the Bourbons, but being declined, he turned liberal, and journe movement which finally led to the re-

#1830. He was chosen as a member of the chember of deputies in 1881, and made a majorgeneral by Louis Philippe. Appointed govern-er of the citadel of Blaye in 1883, he had the daches of Berry under his charge, but earned no honor from the manner in which he discharged his mission, and became afterward known by the name of the "ex-gaoler of Blaye." During the debates of the chamber of deputies on Jan. 16, 1834, M. Larabit complaining of Sock's military dictatorship, and Bugeaud in-terrepting him with the words, "Obedience is the soldier's first duty," another deputy, M. Driong, pungently asked, "What, if ordered to become a gaoler?" This incident led to a duel between Bageaud and Dulong, in which the latter was shot. The consequent exasperation of the Parisians was still heightened by his co-counting in suppressing the Paris insurrection of April 18 and 14, 1834. The forces destined to suppress that insurrection were divided into strigades, one of which Bugeaud commanded. In the rue Transnonain a handful of enthusiwho still held a barricade on the morning d the 14th, when the serious part of the affair was over, were cruelly slaughtered by an overwhelming force. Although this spot lay withthe circumscription made over to Bugeaud's kigade, and he, therefore, had not participated in the massacre, the hatred of the people nailed is name to the deed, and despite all declarations to the contrary, persisted in stigmatizing him as the "man of the rue Transnonain." Sent, June 16, 1886, to Algeria, Gen. Bugeaud became invested with a commanding position in the province of Oran, almost independent of the governor-general. Ordered to fight Abd d Kader, and to subdue him by the display of an imposing army, he concluded the treaty of the Tafna, allowing the opportunity for military operations to slip away, and placing his army in a critical state before it had begun to Bugeaud fought several battles previous to this treaty. A secret article, not reduced to writing, stipulated that 80,000 boojoos (about \$12,000) should be paid to Gen. Bugeaud. Called ok to France, he was promoted to the rank of interest general and appointed grand officer of the legion of honor. When the secret clause of the treaty of the Tafna oozed out, Louis Philpessiborized Bugeaud to expend the money on certain public roads, thus to increase his popuhis electors and secure his seat in the charber of deputies. At the commencecost of 1841 he was named governor-general of Algaria, and with his administration the policy of France in Algeria underwent a complete ega. He was the first governor-general who had an army adequate to its task placed and his command, who exerted an absolute thrity over the generals second in command, who kept his post long enough to act up to a be seeding years for its execution. The bat-te of lay (Aug. 14, 1844), in which he van-timed the army of the emperor of Morocco vith vastly inferior forces, owed its success to

his taking the Mussulmans by surprise, without any previous declaration of war, and when negotiations were on the eve of being concluded. Already raised to the dignity of a marshal of France, July 17, 1843, Bugeaud was now created duke of Isly. Abd el Kader having, after his return to France, again collected an army, he was sent back to Algeria, where he promptly crushed the Arabian revolt. In consequence of differences between him and Guizot, occasioned by his expedition into Kabylia, which he had undertaken against ministerial orders. he was replaced by the duke of Aumale, and, according to Guizot's expression, "enabled to come and enjoy his glory in France." During the night of Feb. 22-23, 1848, he was, on the secret advice of Guizot, ordered into the presence of Louis Philippe, who conferred upon him the supreme command of the whole armed force—the line as well as the national guard. At noon of the 23d, followed by Gens. Rulhières, Bedeau, Lamoricière, De Salles, St. Arnaud, and others, he proceeded to the general staff at the Tuileries, there to be solemnly invested with the supreme command by the duke of Nemours. He reminded the officers present that he who was about to lead them against the Paris revolutionists "had never been beaten, neither on the battle-field nor in insurrections," and for this time again promised to make short work of the "rebel rabble." Meantime, the news of his nomination contributed much to give matters a decisive turn. The national guard, still more incensed by his appointment as supreme commander, broke out in the cry of "Down with Bugeaud!" "Down with the man of the rus Transnonain I" and positively declared that they would not obey his orders. Frightened by this demonstration, Louis Philippe withdrew his orders, and spent the 28d in vain negotiations. On Feb. 24, alone of Louis Philippe's council, Bugeaud still urged war to the knife; but the king already considered the sacrifice of the marshal as a means to make his own peace with the national guard. The command was consequently placed in other hands, and Bugeaud dismissed. Two days later he placed, but in vain, his sword at the command of the provisional government. When Louis Napoleon became president he conferred the command-inchief of the army of the Alps upon Bugeaud, who was also elected by the department of Charente-Inférieure as representative in the national assembly. He published several literary productions, which treat chiefly of Algeria. In Aug. 1852, a monument was erected to him in Algiers, and also one in his native town.
BUGENHAGEN, JOHANN, surnamed POME-

BUGENHAGEN, JOHANN, surnamed POME-BANUS, or Dr. POMMER, a German Protestant theologian, a contemporary and friend of Luther, born at Wollin, near Stettin, June 24, 1485, died April 20, 1558. He was fully persuaded by the publication of Luther's treatise on the Babylonish captivity. He thus announces his espousal of the Protestant cause: "The whole world is blind, walking in Cimmerian darkness; this man alone sees the truth." He assisted Luther in the translation of the Bible, and published a great number of books now little read or known.

BUGGE, Thomas, a Danish astronomer, born in Copenhagen, Oct. 12, 1740, died June 15, 1815. After Tycho de Brahe, he was the greatest astronomer of Denmark. First officiating as professor, he afterward spent most of his time in travelling abroad, and was sent to Paris in 1798 to confer with the commission of the French institute on the subject of the introduction of uniform weights and measures, on which occasion he was made a member of that learned body.

BUGIS, a people of the Malay archipelago, noted for a spirit of enterprise and independence. Their colonies and emporia of trade are found in many islands, in all parts of the archipelago; but the chief seat of this people is in the south-western peninsula of Celebes, in the territories of Boni and Wajoo. The Bugis traders are the chief carriers and factors of the Indian seas. In the European ports of Singapore, Malacca, Batavia, and Rhio, their richly freighted vessels are to be seen at all times. From data derived from their intercourse with these ports, they had in 1857 about 950 padewakans, or prahus, averaging 50 tons each, engaged in foreign trade; and probably a still larger amount of tonnage engaged in the tripang, pearl, and other fisheries, and in trade with the Papuan islands, and other portions of the archipelago not yet in direct communication with European commerce. The value of this native trade may be judged from the fact, that it is not uncommon to see in the port of Singapore the cargo of a pade-wakan, consisting of dammar, sapan wood, birds' nests, tripang, pearls and mother of pearl, ratans, gatah taban, nutmegs, and other Malaysian products, sell for \$20,000 and \$30,-000, and even for as large an amount as \$50,-000. Their advancement in civilization keeps ace with their active commercial development. Barbosa, in 1515, describes the Bugis and their neighbora, the Macassars, as ferocions pirates and cannibals. None of the Portuguese historians of the archipelago give any intimation of the commercial enterprise of this race. in 1660 the Dutch conquered the Macassar tribes of Goa, no other mention is made of the neighboring Bugis people than as of an inferior race of barbarians. A little while previous to this conquest, the Macassars had invaded the Bugis territory, destroyed the pagan worship of the people, and forced them to receive teachers of the Mohammedan faith, the Bugis being the last converts to the creed of the Koran in the archipelago. Islamism abolished headhunting, as now practised by the Dyaks in Borneo, human sacrifices, cannibalism, and many degrading superstitions; and from this period of conversion to the present day, this people have made rapid progress toward a respectable position in the civilized world. They are perhaps a more vigorous and promis-

ing branch of the brown races than the Zealanders. They have domesticated the ox, buffalo, sheep, and go They c ton successfully, and of substantial quality; wey in iron and copper: the we houses of substant some being made of z ken stone and cement, which as cannot be torn apart with c πр their dwellings are generally surrounds evidences of much horticultural taste build durable sailing vessels; in their they use charts and compasses; they l ed a maritime code, that has been a authorities in naval jurisprudence; a also framed a calendar, dividing the soas we do; but more than all, t y he vented an alphabet and a sys writing, which none of the ene western Europe, except those . Italy, done. The government of this people oligarchy or elective monarchy. Boni is composed of 7 principalities; and Wajoo, of 40. In both states the sover elected by the nobles, and from the ne class. The vote, in choosing a ruler. unanimous; and often the merits of e man and noblewoman (females bei and generally preferred), in the state, = ed, before a choice is made; the soverholds power during good behavior, and deposed by an adverse majority vote m cil; hence there are frequent changes presidency, as the executive power Bugis people may be justly termed. council of 5 nobles is chosen to advise w chiefs, who receive the title of Bati-l "great banners." The people pay no except a small tribute of three days' labo equivalent, to the sovereign; and there imposts on trade. Strangers iti he are exempt from all charges. rive their revenue from their own e unrestricted freedom of intercourse parts of their own country, and with countries, prevails; and this liberty of enterprise, joined to their entire 1 trade, may be justly regarded, as it observed, as both the cause and effect un dependence, enterprise, and prosperity interesting people. The Tuwaju, or tribes, are esteemed as decidedly sun many respects to their brethren of B Wajus have been enterprising coloni as traders. Large communities of --have within the present century been i Borneo, Sumatra, in portions of Celebos from the parent country, and in islands of the archipelago. The names pot of Bonirati is one of their sett Singapore they form a separate and me community. They have not be by the Dutch to establish set possessions; and indeed the rules of Ja so often been worsted in hostile eno

the brave Bugis, that they may justly dread the settlement of such a vigorous and free-spirited rece among the special notice that among this is worthy of especial notice that among the special notice that among the special notice that among this is worthy of especial notice that among this is worthy of the eastern phere, not even excepting the Chinese, and who promise, judging from their past rapid progress, to become the leading race in the ipelago, and to be probably the founders of melightened Oceanican empire, their women sess the fullest social and political equality. the greater portion of the sovereigns of Tuwaju and Boni, since these states have been known to Europeans, have been females. The Bugis women manufacture all the cloth, and other steples of Bugis trade; they carry on all the seems at home; and in many instances are mariners on board of Bugis vessels; and not cently their navigators. A romantic emutof recent occurrence, which was generally assessed by the journals of Europe and of this entry, is a signal illustration of the energetic character of the Bugis women. Col. Poland of the Netherland India army, when a lieutenant in sumand of a detachment of European and nathe troops in Celebes, was attacked by a large body of Macassar insurgents. Early in the estion he was wounded; and his troops being freed to retreat before overwhelming numbers, h was left on the field and was on the point of ing despatched by the kreeses of the Macasses; but at this juncture, a Bugis girl, daughter ds native soldier to whom the commander had shown kindness, with klewang in hand felled the foremost Macassar, and so vigorously defield the prostrate lieutenant as to induce the ches who threatened his life to follow their vistorious companions. The heroic Fiena, the some of the girl, dragged the wounded man to accel shade, nursed him in the woods for 2 weeks, and afterward led him to a place of wity. When Poland was made colonel, and stired on a pension, he married Fiena, in Holland, in 1856.

BUGLE-HORN, a musical wind-instrument, of brass or other metal, which, by the addition of keys, is capable of producing all the inflections of the scale. It was formerly peculiar to the case, and was called by the Germans the Walkers, or wood-horn, but is now almost in-

Weller, or wood-horn, but is now almost inEpasable in military or orchestral bands.

BURLE, JOHANN GOTTLIEB, a German philosspher, born at Brunswick, in 1768, died in
1821. Then only 18 years old he delivered a
course electures on the history and literature
of philosophy; and at the age of 20 he gained
at Gottingus the academical prize. In 1787 he
was appointed professor extraordinary, and in
1729 professor of philosophy at Gottingen.
When the French revolution broke out he was
deprived of his professorship, and withdrew to
lamin, where he became successively professor
of philosophy, history, and literature in the
mirrarity of Moscow, librarian of the grand
decless Catharine, and councillor of state. He
wired from Moscow before its occupation by

Napoleon, and drew up a comparison between the taking of Moscow by the French, and of Rome by the Gauls. He returned in 1814 to his . native town. His summaries of the history of philosophy, and his manual of "Natural Right," are among the most important of his works. BUHL-WORK, a process of inlaying by the

use of the saw, the name of which is supposed to be derived from a famous Italian workman named Boule, who settled in France in the reign of Louis XIV., and carried on this business, which he invented. As practised by him the work consisted in inlaying dark-colored tortoise shell or wood with brass, cut in flowing patterns to imitate vines and wreaths of flowers. Reisner, who practiced the art at a little later period, made use of woods, which contrasted well in color; and the term is now applied to his process. The general term, marqueterie, designates in France all the varieties of this kind of work. It consists in cutting out a pattern from two veneers of differentcolored woods, which are glued together with a piece of paper laid between them; and then, after separating the pieces by running a thin knifeblade through the paper, the patterns are carefully taken out, and the figure removed from the one is inserted into the cavity of the other, the dust of the wood being rubbed in to fill the interstices. The cutting of the pattern is effected by the use of a very fine saw, of the kind known as a key-saw, which can readily be made to run around the sinuosities of the pattern. The suitable designs for this work are continuous figures, like a running vine or the honeysuckle, the saw completing these without the necessity of discontinuing the work to commence anew. When three thicknesses of wood are glued together and cut, the work is carried on more rapidly, and with more variety; but it is not found expedient to increase the number of thicknesses beyond this. In old work of this kind it has been found that different woods contract unequally, and at last produce a defective joint. This is remedied by the use of veneers of the same light-colored wood, one of which is dyed a dark color. In inlaying pearl work by the Buhl method, some modifications of the process are rendered necessary by the small size of the pieces, and by greater care required to make a nice joint. The saw in this is run through at an angle to give a bevelled edge, and the lines are filled in with strings of white metal, as tin or pewter.

BUHRSTONE, called by the French siles molaire and pierre meulière, the best material known for constructing millstones. It is a silicious rock found interstratified with the sands, marls, and sandstones of the tertiary formations of the Paris basin, peculiar for its regular cellular structure and hardness like flint, with which it is identical in composition, both being mere varieties of quartz. It is these qualities of extreme roughness, derived from its honey-combed structure, and great hardness and strength, that render it the best stone for

The fossil shells of land and fresh water origin, with which the rock is sometimes filled, are converted into the same hard silicious substance as the rest of the stone, and their cavities are often lined with crystals of quartz. The color of the rock is whitish, with a shade sometimes of gray, and sometimes of yellow and blue. The best quality is that about equally made up of solid silex and of vacant spaces. The stones are quarried at numerous localities near Paris, whence they are transported in large quantities into the interior, and to Bordeaux and Havre for exportation. La Fertésous-Jouarre, Seine-et-Marne, is one of the most important points where they are procured. The quarries are worked open to the day, and the stones, when extracted from their beds, are split with wedges into cylindrical forms. pieces are out into parallelopipeds, which are called panes. These are to be hooped together into the shape of millstones, answering the purpose perfectly well, while they are of much more convenient size for transportation than single stones. Good millstones of a bluish white color, and 61 feet diameter, are worth 1,200 francs, or about \$250, each. In this country numerous substitutes for the French buhrstone have been found, the most important of which is furnished by the Buhrstone rock of the bituminous coal measures of northwestern Pennsylvania and eastern Ohio, immediately underlying the principal iron ore deposites of that region. This rock has been wrought into millstones ever since the revolution, but the French rock has, nevertheless, maintained a decided preference in all the great markets.

BUIL, BERNARDO, the first Spanish missionary in the new world, died in the convent of Cuxa, in 1520. He was selected by Ferdinand and Isabella to accompany Columbus for the purpose of converting the natives of Hispaniola. He took with him several priests, but returned to Spain after 2 years in consequence of disagreements with the governor concerning

the treatment of the natives.

BUILDING, the art of construction, applicable to a variety of objects, as houses, bridges, wharves, ships, &c. The term architecture, of which building is the mechanical execution, is in common use limited to the construction of buildings for the purposes of civil life; but this is sometimes designated as civil architecture, in contradistinction to the planning and construction of forts, &c., which is called military architecture, or of ships, which is called naval architecture. Building also is commonly understood to apply to only the first class of objects, unless otherwise specifically designated. Even thus limited, it is too comprehensive for more than a general notice; so that for the details of the art reference must be made to the articles in this work upon the materials employed, as BRICK, STONE, TIMBER, BRAMS, SLATE, LIME, &c.; and also to those upon the various minor portions or processes of the construction, as FOUNDATIONS, CARPENTRY, PAINTING, WARM-

ING, VENTILATION, &c., &c. subjects the practical builder should be as also should the architect, who deplans which the former executes. and principles of building have alrea treated in the article Architecture. portance of this art to all classes of n caused it to receive especial attention v cultivated nations; and from early period have been able treatises elucidating the processes it includes. The modern pr has made has called forth numerous wo periodicals devoted to this subject, among may be named as particularly adapted wants and tastes of this country, La "Modern Builder's Guide" (New York, and Sloan's "Model Architect." Amou lish works, those of Loudon, and the per called the "Builder," may particularly ferred to. A very elaborate work by R was published in Paris in 1830-32, in quarto, with a folio volume of plates, e Traité de l'art de bâtir.

BUITENZORG, the official name of t cient province of Bogor, in the island o now forming a residency; bounded N. residency of Batavia, E. by Krawang, S. Prayangan regency, and W. by Bantam. 1,276 sq. m.; pop. 320,756, of whom 650 ar peans, 9,680 Chinese, and 23 Arabs. The state of the control was first given to a country seat of the governor-general, and signifies " without or equivalent to sans souci. This dence of the Dutch viceroy is now a considerable magnificence; being situate ly 1,000 feet above the level of the sea joys a much more invigorating climat Batavia, which is 40 miles distant. Man of temperate climates, the cherry and and every variety of European esculent tables, are cultivated with success in the dens of Buitenzorg. A park enclosing tigers and other wild beasts, large tank with the fresh-water fish of the archi and aviaries containing cassowaries, rhi birds, and other remarkable birds of islands, form a part of the oriental feat this palatial residence. The grandeur surrounding mountain scenery is very ing. A company was formed, par v Ar capitalists, to construct a railroad ir to Buitenzorg, but the government v permission to go on with the work, ethe locomotives and other material ha imported. However, an electric telegrestablished between the capital and the the viceroy; but it is used exclusively f

ernment purposes.

BUKKEN, an island on the W. coast way, province of Christiansand. It has village of the same name. The Bukke cken fiord, an arm of the sea 85 miles lon 10 to 15 miles wide, and crowded with islands, separates it from the island of K

BUKKUR, a fortress of Sinde, Hin occupying nearly the whole of a rocky

of the same name, in the Indus, opposite the towns of Roree on the E. and Sukkur on the W. bank of the river. Before the annexation of Sinde, it belonged to the ameer of Kyrpoor, by whose permission it was garrisoned by the British in 1839, during the Afghan war. About that time the Bengal army on its march to Afghanistan crossed the river here on a bridge of losts, which was soon after swept away.—Also, a town in the Punjaub, near the Indus, with an extensive commerce. Pop. about 5,000.

BULACAN, a town of Luzon, and capital of a province of the same name, in the Philippine blands, 30 miles N. W. of Manila. It is situated at the river Bulacan, which is here crossed by a bridge of 5 arches. Sugar, silks, and carbon are its chief manufactures. Pop. 9.803.

pets are its chief manufactures. Pop. 9,803. BULAMA, the easternmost of the Bissagos ideds, off the W. coast of Africa, 20 miles S. of Risso. Lat. 11° 84′ N., long. 15° 83′ W. It is short 18 miles long by 9 miles wide, densely wooded, fertile, but unhealthy. The land rises from the coast toward the centre, where the devation is about 100 feet above the sea. In 1792 an English company, called the Bulama association, sent out here a colony of 275 misershle adventurers, most of whom were soon carried off by disease. The remnant sailed for Sierra Leone the following year. Portugal now chains the island, but in a recent parliamentary report on western Africa, its reoccupation by the British for commercial purposes and the suppression of the slave trade was earnestly recommended.

BULARCHUS, the earliest painter mentioned in history. He was of a Greek colony in Asia Minor, and lived more than 700 years B. C.

BULB, in botany, a broad imbricated bud, smally subterranean, emitting roots beneath, and developing the herbaceous stock and foliage upward. The leaves or scales with which it is dothed are thickened by the deposition of nutritive matter, stored for the future use of the plant. It differs from the tuber, which is the chargement of a subterranean branch.

BÜLGARIA, a dependency of European Turby. The Danube forms the whole of its arthern, and the parallel chain of the Balkan is southern, boundary. It has an area of about \$1,000 aq. m., and is divided into 3 eyalets, or provinces, viz.:

 Pop.
 Christiana,

 1,200,000
 181,820

 Videa.
 1,100,000
 596,835

 Ima.
 1,154,000
 676,828

Tetal........ 8,454,000 with 1,454,508 Christians.

and the rest Mussulmans, Jews, Servians, Gypsies, Greeks, Armenians, Tartars, and Russian settlers, Bosniaks and Wallachians, Germans, Italians, and Hungarians. Sophia (Bulgarian, Triaditza), in the eyalet of Widdin, Sistora, and Nicopoli are among the chief dies. The most strongly fortified towns to Varna, Silistria, Shoomla, and Roost-chook. The principal rivers are the Danube, with its tributaries, the Isker, Vid, Yantra,

and Osma, and the Kamtchik and Pravadi, which enter the Black sea. The river Maritza rises southward from the Balkan. The largest lake is that of Rassein, which is separated by a narrow strip of land from the St. George's mouth of the Danube, from which a little arm, called Dunavitz, enters the lake, the communication of the lake with the Black sea being formed by 2 channels, called the Jabora and the Portitcha mouths. The surface is mountainous in the south, level in the north, generally well wooded, and with dense forests along the Balkan range. Iron, lead, and some silver are found. Agriculture is more flourishing here than in any other part of Turkey. The largest quantities of grain are grown in Silistria, and in the plains near the Danube. The general exports of the country comprise, beside various kinds of grain, timber and oak planks, hemp, flax, tobacco, hides, honey, wax, and great quantities of tallow, 40,000 oxen or more being fattened during the summer months and slaughtered during the autumn for their hides and fat, beef being seldom eaten by the Mussulman, whose favorite food consists of mutton and goat's flesh. Large quantities of wine are made, and fruits are abundant. Roses abound, and gardens are laid out to cultivate them, Bulgarians excelling in the preparation of otto or attar of roses, much of which goes to England. The Tartar population is actively engaged in the rearing of horses (of an inforior breed), and in the culture of bees. Beside horses, horned cattle, and buffaloes, the country produces sheep and goats, also swine for the consumption of the Christian part of the population. Grain is occasionally shipped in lighters to Matchin, a small port opposite Brailoff, and thence exported to for-eign ports, but the chief Bulgarian shipping port is Varna, in the eyalet of Silistria, which has an annual aggregate tonnage, inward and outward, of about 45,000 tons, in about 500 vessels. There is also a depot at Varna for tallow and other products. The most noted manufactures of the country are coarse woollen cloth, and rifle barrels. The rest are all of coarse goods. The imports are manufactured goods, coffee, spices, sugar, salt, &c. The town of Sistova carries on an extensive trade with Wallachia, and has a large commerce in manufactured goods imported The agricultural production from Austria. is estimated at \$17,000,000, the industrial at \$4,000,000.—Bulgaria was the Masia Inferior of the Romans, and derives its name from northern hordes who invaded the country in the 7th century. The history of the Bulgarians presents a series of continued conflicts with the Servians, Greeks, and Hungarians on the one hand, and on the other with the Turks, who finally subdued them, and put an end to the existence of a Bulgarian kingdom in 1892. The territory is of the first importance to the integrity of the Turkish empire, and to neutralize the Russian influence which operates powerfully

in Bulgaria, is a matter of great moment for the Turkish government. In 1853, during the Russian occupation of Moldavia and Wallachia, the line of fortresses along the left bank of the Danube and those in the Balkan range were guarded by a large Turkish army, divisions of which crossed the Danube opposite Oltenitza and Kalafat, and obtained some slight advantages over the Russians. The St. George's mouth of the Danube is by treaty open to all trading vessels, and to the war ships of Russia and Austria, and measures have lately been taken to facilitate the navigation, which is difficult. Various railways are projected; but that between Boghazkew and Kustendji, is the only line to which a charter has as yet been granted, and which, when completed, will be the first

railway in operation in Turkey.

BULGARIAN LANGUAGE AND LITERA-TURE. Bulgaria and the adjacent provinces of Macedonia are considered to have been the cradle of the old Slavic languages. The ancient Bulgarian language was the richest of them all, and was the Scriptural language of the Greek-Slavic church, and the great medium of ecclesiastical literature in the ancient Slavic lands. After the overthrow of the Bulgarian kingdom at the close of the 14th century, the grammatical structure and purity of the language became impaired by mixture with the Wallachian, Albanfan, Roumanian, Turco-Tartar, and perhaps Greek vernaculars; and the modern Bulgarian language has only the nominative and vocative of the 7 Slavic cases, all the rest being supplied by prepositions. It has an article, which is put after the word it qualifies, like that of the Albanians and Wallachians. Among the ancient Bulgarian ecclesiastical literature must be mentioned the translations of the Bible by Cyril and Methodius, and the writings of John of Bulgary in the 10th century. The modern literature is very slender, consisting almost entirely of a few elementary and religious books. Grammars of the Bulgarian language have been published by Neofyt in 1885, and by Christiaki in the following year. Venelin, a young Rus-sian scholar, sent to Bulgaria by the Russian archæographical commission, published in 1837 a grammar and 2 volumes of a history of the Bulgarians, but died while he was engaged in preparing a 3d volume. A new grammar was given to the public by Bogojev in 1845, and finally in 1849, by the Rev. E. Riggs, an American missionary stationed at Smyrna, who also sent a Bulgarian translation of Gallaudet's "Child's Book on the Soul" to New York. Dictionaries of the Bulgarian language have been prepared, or are in course of preparation, by Neofyt and Stojanowicz. A Bulgarian version of the New Testament was printed at Smyrna in 1840, for the British and foreign Bible society. The Bulgarian national songs are numerous, and are similar to those of the Servians. Czelakowsky's collection of Slavic songs contains a number of Bulgarian songs. Bogojev published 12 historical poems in 1845,

while a publication on the subject of tion has appeared from the pen of Bulgarian publications are issued c Bucharest, Belgrade, Buda, Cracow, Cunople, Smyrna, and Odessa. A paper, ca "Bulgarian Morning Star," has appeared latter city since 1848. The first number monthly magazine, entitled "Philologian issued from the press of Smyrna in 1848.

Bulgarian almanse from the same pressi BULGARIN, THADDEUS (Polish I BULHABYN), a Russian author, born in : Lithuania. His father fought under Ko and after the fatal issue of the Polisu independence, his mother removed Petersburg, where Thaddeus was educ the military academy. In 1805 he to in the war against France and Sweusubsequently left the Russian service, in the Polish legion in Spain, was prisoner by the Prussians in 1814, see recovering his liberty under Napoleo after the Emperor's downfall, occupie self with literary pursuits in Warsaw. some time he returned to St. Petersbu throwing off his Polish nationality, he forth devoted himself to Russian lit In 1823 he edited the "Northern Are originally a historical and statistical but which he made popular in Russia humorous and satirical contributions. he published in conjunction with his Gretsch the "Northern Bee," becan editor of the "Daguerreotype," and of Russian theatrical almanac, called the sian Thalia." His complete works, pr at St. Petersburg, 1827, and at Leipsic, man, in 1828, include many of his essays and his Spanish sketches, to w added his Turkish sketches in a separate In 1829 he made his debut as novel "Ivan Vuishigin," or the Russian "Gi of which "Peter Ivanovitch Vuishigin continuation. Subsequently he publi works containing pictures of Russian lift avley," "Demetrius," and "Mazeppa, have lost somewhat of their popularity in although from a Russian literary point they have many excellent points, esptwo last-named novels, from their character, and generally from the which they afford into Russian life Russian "Gil Blas" was published in at Aberdeen in 1831, and his "Russia i torical Statistical Geographical and in torical, Statistical, Geographical, and Point of View," one of his most works, has been translated into Ge Brackel. His literary labors proved pr and he lives in comfortable circun villa near Dorpat. His last work, niya, of which 6 volumes have alies peared, contains interesting reminisc his stirring life. The czar and l always befriended him, and he writes strong bias in favor of Russia. BULKHEADS, the partitions built several parts of a ship, to form and separate the

various apartments.
BULKLEY, PETER, first minister of Concerd, Mars., born at Woodhill, Bedfordshire, in 1883. He was educated at Cambridge, and secceeded to the living of his father in Wood-kill, which he retained for 21 years. He was removed from this by Archbishop Land, for church, whereupon he immediately left Enghad for the new world. He settled with a few companions in a place first named by then Concord, in the colony of Massachusetts, since distinguished in New England history, where he died in 1659. He was the author of some Latin poems, which are contained in Cattan Mather's "History of New England," and also of the "Gospel Covenant Opened," hed in London in 1646. He was as restable for his benevolence and kind dealings s for the strictness of his virtues.

BULL, PAPAL (Lat. bulla, a seal), one of the feres in which the pope issues his ordinances. heifers from a brief in that the latter is shorter miles solemn, though equally authoritative. Briefs are sealed with red wax, stamped with the fisher's ring. The seal of a bull is of lead er gold, stamped on one side with the effigies of Saints Peter and Paul, and on the other with the name of the reigning pope, and attached to the document by strings. The two acts differ also by the subscription, salutation, and spectolical benediction, which are simpler in the brief; and by the date, which is taken from the modern calendar for briefs, and from the Roman calendar for bulls. Bulls are commonly desigmeted from the words with which they commeace, as the bull In cana Domini, which was formerly read publicly at Rome on Holy Thursday, and contains a general excommunication against heretics and those contumacious and dischedient to the holy see. Its publication was suspended by Clement XIV. in 1773. Among the balls most celebrated in history are the Clericis laice, given in 1296, by Boniface VIII., and which began his contest with Philip the Fair; the Execrabilis, issued by Pius II. in 1460, to interdict appeals to future councils; the Ex-Domine, directed in 1520 by Leo X. spirit Lather, who burned it at Wittenberg; the Com eccasione, by which Innocent X. contenad the 5 propositions of Jansenius, in 1652; the Unigenitus, issued by Clement XI. in 1712, against the "Moral Reflections" of Questi; the Post diurnas, by which Pius VII. in 1800 established a new judiciary order in the states of the church; and the Ineffabilis Down by which Pius IX. in 1854 established the dogma of the immaculate conception.—Bulla Dunner, or Half Bulls, are instruments of this character issued by the pope before his coversion, and so called from the fact that the

lad or gold is stamped only on one side.

BULL, GEORGE, an English prelate, born at Vella, Somersetshire, March 25, 1634, died Feb. 17, 1710. Having graduated with distinc-

tion at Oxford, he was ordained at the early age of 21, and soon became rector of St. George's, near Bristol. Here he made himself beloved by all, and kept his parish in peace during those troublesome times. On one occasion, while he was preaching, a certain fanatic bawled out, "George, come down! thou art a hireling and a false prophet!" George did come down, but only to rescue this zealot from the fury of the congregation, who wished to resent on the spot the insult offered to their pastor. In 1658 he became rector of Suddington St. Mary, in Gloucester, and in 1662, of Suddington St. Peter. In 1669 he published in the Latin tongue his most important work, called *Harmonia Apostolica*. This is an attempt to reconcile the apparent contradictions between St. James and St. Paul, on the doctrine of justification. This publication extended his fame to foreign countries, and his reputation procured him a stall in the cathedral of Gloucester. In 1705 he was promoted to the bish-opric of St. David's. He is reckoned among the great lights of the church of England.

BULL, John, the popular name applied to Englishmen. It was first used by Dean Swift; others ascribe its origin to Dr. Arbuthnot's novel entitled "John Bull."

BULL, John, an English musician, born in Somersetshire about 1563, died at Lubeck, in Germany, about 1622. In 1596, on the recommendation of the queen, he was appointed professor of music at Gresham college, which position he resigned in 1607 to become chamber musician to King James. He quitted England in 1613, and finally settled in Lübeck. As a performer on the organ, he was the most able musician of his age. Having once performed before King James a song which he called "God save the King," the present national anthem of England has been erroneously attributed to him.

BULL, OLE BORNEMANN, a Norwegian violinist, born at Bergen, Feb. 5, 1810. His father, a chemist, who had destined him for the church, steadily repressed his son's passion for music. At the age of 18 he was placed at the university of Christiania. His skill on the violin gained him no favor with the professors; and when he took the temporary charge of the orchestra at one of the theatres, during the illness of the leader, his connection with the university was dissolved forever. In 1829 he went to Cassel to study with Spohr, but his reception was so chilling, that in a moment of despondency he went to Gottingen and commenced the study of the law. His fondness for his art, however, soon interrupted this pursuit, and he went to Minden, where he gave a concert with considerable success. While at this place he had a quarrel with a fellow-artist, which resulted in a challenge. The parties met, and Ole Bull's antagonist was mortally wounded. Compelled to leave the country, he betook himself to Paris, where he arrived poor and unknown, and for some time led a precarious and most wretched existence. Moreover, he was robbed of every thing he possessed, including his violin, and in despair he threw himself into the Seine, from which he was rescued. A bereaved mother, who traced in his features a remarkable resemblance to her dead son, took him into her house, and assisted him so liberally that he was enabled to make his first appearance in public as a violinist. The public were charmed by the performance, and the proceeds of his first concert enabled him to make a musical tour through Italy. next 7 years were spent in frequent professional tours through Italy, France, Germany, England, and Russia, by which he acquired a handsome fortune. Returning to his native place in 1838 with his wife, a Parisian woman, he settled upon an estate which he had purchased in the neigh-At the end of 5 years he came to the United States, and experienced an enthusiastic reception; and after a career of great pecuniary success, he returned to Europe in 1845. During the next 7 years, he gave concerts in the chief cities of the continent, made a campaign in Algeria against the Kabyles with Gen. Yusuf, made improvements in musical instruments, built a theatre in Bergen, and endeavored to establish in Norway national schools of literature and art. Influenced by patriotic feelings, he introduced political sentiments into the dramas performed at his theatre, and was brought into collision with the police. atious lawsuits, resulting from these troubles, dissipated a large portion of his fortune; his wife sank under the rigors of the climate; and the artist once more left his country for the new world, where he arrived in 1852. In that year he purchased a large tract of uncultivated land, comprising 120,000 acres, situated in Potter co. in the northern part of Pennsylvania. A large number of families, to whom the lands were sold at a nominal price, gathered upon the spot, forming the germ of an extensive agricultural colony, to which the name Oleana was given, in honor of the founder. For a time the new settlement was favored by bright prospects; but dissensions soon crept in; pecuniary embarrassments followed; and at length the project was entirely abandoned and the colony broken up. To repair his shattered fortunes, Ole Bull resumed his concerts, and after the completion of the academy of music in New York, in 1854, took a lease of the building with the intention of undertaking the management of the Italian opera. The enterprise proved disastrous, and at the end of 2 months he found himself involved in a number of lawsuits resulting from it, beside having experienced heavy pecuniary losses. He has since returned to Europe, and is now (1858) engaged in giving concerts in Vienna and other cities.
BULL, WILLIAM, an American physician, and

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BULL, WILLIAM, an American physician, and lieutenant-governor of the colony of South Carolina, of which province he was a native, born in 1710, died in London in 1791. He received at Leyden a medical degree, the first, or one of the first, ever obtained by a native America. With some short intervals he u lieutenant-governor of South Carolina from 17 till that province ceased to be subject to Gn Britain. He was faithful to the crown in 17 and in 1783 accompanied the British tro England, where he resided during the n of his life.

BULL-BAITING, a barbarous and b exhibition, common in England from a early period till the commencement of reign of George IV., when it was probil by act of parliament. The bull was s to a post by a chain fastened through a in his nose, allowing him to move circle, but preventing him from gain! liberty, which would have been danger. to spectators, when bull-dogs were to run at him, which, rushing always head, either pinned the bull by the wo lip, or were tossed in the air, gored and t pled. The excitement consisted in wi the courage of the dogs in the attu the bull in defence; but there v in the contest, as the more powerrus chained to the stake, had neither the oppoto decline the contest, nor to exert his 1 and terminate it by defeating his e

BULL-DOG (canis molossus), a species un said to be peculiar to the British islands. distinguished almost solely for its undi inating ferocity. The dog, generally, by alists, is distinguished into 8 divisions, to a of which all natural species belong, while a combination of 2 or more all the artific varieties are to be referred. These are the co sagaces, veloces, and feroces, distinguished spectively for their intelligence, their speed. their ferocity. The first or highest is represent ed by the spaniel, to which belong all the 1 species which hunt by scent; the middle, by greyhound, or, more properly, gazehound, which are referred all those which hunt i or solely by speed; and the lowest, by the dog, of which pugnacity is the sole cha The bull-dog is low in stature, deep-clie strongly made about the shoulders, which, w the chest and neck, are enormously develop as are also the muscles of the thighs b although, generally, the hind quarters are as compared to the fore part, and the flanks ... low and tucked up, like those of the grevhe In his head, however, are seated his peculiarities. It is remarkable for its su broad muzzle, and the projection of its lov jaw, which causes the lower front teeth to 1 trude beyond those of the upper. The cond of the jaw are placed above the l of t grinding teeth; and it is this o renders the bite of the bun-u severe, and his hold, when once ...ken, The lips are thick, deep, immovable. pendulous; the ears fine, small, and per at the tip; the tail thick at the root, tapering to a point, as fine as that of greyhound. "He is the most ferocious and

releating of the canine tribe, and may be considered courageous beyond every other creatare in the world; for he will attack any animal, whatever be his magnitude, without hesitation, either at his own caprice, or at the bidding of his owner. His most important quality, and that probably, which causes all the others, although we cannot perceive the connection, is the diminution of the brain; which, in the ball-dog, is smaller and less developed than in my other of the race; and it is, doubtless, to the decrease of the encephalon that must be stributed his want of intelligence, and incapacity for receiving education." So strongly marked is this postliarity, that an able recent writer on the dog considers the bull-dog as a sort of steermal canine monster, a dog idiot, yielding to mountrollable physical impulses, now of hind ferocity, now of equally blind and undiscininating, maudlin tenderness, which renders him more addicted to licking, slobbering, and mbling the hand, the boot, or any other part of any person to whom he takes a sudden and s liking, and whom he is just as likely to assault the next moment, than any other of his species. This view is, however, scarcely to be regarded as philosophical. All creatures have their places in the scale of creation; and, without any one of them, the chain of existence, and it may be added of intelligence, would be incomplete. It is probable, also, that the intelligence and capacity of this animal to learn are underrated. Men are very apt, because they bestow much pains on the education of one minal, and none on that of another, to promee this a wonder of intelligence, that incapable of learning. It cannot, however, be denied that the bull-dog does not display the usual intelligence nor the fidelity of the dog; since he will capriciously attack his master, of whom he may, ordinarily, be morbidly fond. A proof d his distinct purpose in creation is his native astipathy to the bull; which is not akin to the propensity of all animals, particularly of all dogs, to pursue any thing which flies, but to the instractive antipathy which induces the ichneu-ness to attack the venomous snake, the kitten be small the mouse, and the ferret to hunt the antipathies not connected with the desire drey, and owned by the one party as intensely by the other. In proof of this, a thorough-brai ball-pap, of 6 months, which has never sees a ball, the first time he beholds one, will mathebead, which is his invariable point of attack, and, seizing him by the lip, tongue, or ore hangen in spite of every attempt to detach him, and will suffer himself to be killed or even dismembered—instances of which horrible barbrity have actually occurred in what are absurdly called the good old times—rather than forego is hold. It is clear, indeed, that bull-baiting was the consequence of this natural hatred and autagof the 2 animals, not the cause of it. It was add saying that 1 bull-dog was a match for a | for a wolf, 8 for a bear, and 4 for a lion. The latter experiment was tried on a wild,

newly imported African lion, in the tower of London, some years since; when, although not one of the dogs showed a symptom of fear, or relaxed his hold, the lion annihilated them all, with blows of his paws, in a few seconds. The very propensity of the bull-dog to run at the head only, renders them useless to attack wild beasts; as it limits the number of those which can attack at once to as many as can seize at one time. If they would only lay hold on all sides, like foxhounds, nothing but a rhinoceros could resist the combined attack of a pack of bull-With the decline of bull-baiting, the demand for the bull-dog has ceased; although he is still found useful to cross with other dogs, to which he imparts courage, endurance, and tenacity of purpose. There is a large cross of the bull-dog, where it would be least expected, in the greyhound, introduced by Lord Orford, to give certain valuable qualities; and the greyhound shows it by his always running at the head of large animals, as the deer. There is, also, a probable cross in the pointer, shown in the pendulous jowl and rat tail, as well as in the determined character.

BULL-FIGHT, a Spanish spectacle, introduced by the Moors originally, and universally adopted in all the cities of the kingdom, each of which has an arena of greater or less magnificence, called the plaza de toros, set apart for this entertainment. The bulls are turned out, one by one, with many forms of pomp and solemn ceremonial, into the open space; where they are assailed, first by horsemen, called pica-dores, who attack them with the lance; then, when a dozen or more horses have been ripped up, and one or two men have narrowly escaped a similar fate—for the riders are rarely injured, since, the moment they are overthrown, a crowd of active footmen, called chulos, provided with crimson banners, take off the attention of the bull—they are tormented by the banderilleros, armed with sharp-barbed darts having fireworks and flags attached to them, until they are thickly covered with shafts, bleeding at every pore, and scorched till their glossy hides are black and crisp by the explosions of Then comes the last act of the fireworks. the tragedy, when the skilful matador enters the arena slowly and alone, habited in unadorned black, and armed only with a long straight sword, with which he soon gives the coup de grace to the tortured brute, sheathing the blade, with one sure thrust, up to the hilt in his body just at the juncture of the neck and spine. A train of mules drag out the slaughtered carcass, amid the sound of trumpets and the acclamations of the spectators; the dead or dying horses are removed; the arena is strewed with fresh sawdust; another bull is introduced; and so goes on the Spanish holiday, until perhaps 80 bulls and double that number of horses have been slaughtered to delight the populace, with whom the cry, almost identical with the panem et circenses of the Roman mob, is still for pan y toros.

BULLA (Lat. bulla, a bubble), the name of a genus of shells, the form of which is globose like a bubble. They are not furnished with any projecting spire. The animal which inhabits the shell is too large to be contained within it, so that the whole shell is frequently concealed beneath the fleshy covering. The bulls are all furnished with a gizzard for masticating and digesting their food. This consists of 8 rough and prominent pieces of shell, connected by a cartilaginous ligament by which they are moved. By this apparatus hard substances, such as small

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shells, are ground and converted into food.

BULLARD, ARTEMAS, D. D., an American clergyman, born at Northbridge, Mass., June 8, 1802, died Nov. 1855. He was graduated at Amherst, in 1826, studied theology at Andover, and visited the western states as agent of the Sabbath-school society. In 1832 he was appointed general agent of the board of commissioners for foreign missions, and took up his residence at Cincinnati, making excursions over the Mississippi valley. He was installed pastor over the first Presbyterian church of St. Louis, Mo., June 27, 1838, and was one of those who perished at the railroad accident in crossing the Gasconade river in 1855.

BULLARD, HENRY ADAMS, a lawyer of Louisiana, born at Groton, Mass., Sept. 9, 1788, died in New Orleans, April 17, 1851. He graduated at Harvard college in 1807, studied law, and also many modern languages. Through his knowledge of the Spanish he became acquainted, while at Philadelphia, with Gen. Toledo, and embarked with him, as his military secretary, in an expedition to revolutionize New Mexico. Upon its failure he contrived to escape, and opened a law office at Natchitoches. He succoeded in the profession, and in 1822 was appointed one of the judges of the district court. In 1831 he was sent to congress, in 1834 became judge of the supreme court, and in 1846 removed to New Orleans, and entered upon a large legal practice. He was made professor of civil law in the law school of Louisiana in 1847, and delivered 2 courses of lectures. He reentered congress after an absence of 16 years, and died soon after his return home.

BULLER, CHARLES, an English politician, born at Calcutta, Aug. 1806, died in London, Nov. 28, 1848. He was educated in England, graduated at Cambridge as B. A. in 1826, entered parliament for West Looe in 1830, and in the following year was admitted a barrister at Lincoln's Inn. He voted for the reform bill, which disfranchised West Looe, and in 1832 was sent to the house of commons for Liskeard, in Cornwall, which he continued to represent till his death in 1848, distinguishing himself by his support of liberal measures and by his readiness as a debater. In 1888 and 1839 he officiated as secretary of the earl of Durham, governorgeneral of Canada. On his return to England he was devoted to the practice of his profession, chiefly in connection with cases relating to Indian affairs. In 1841 he became secretary of

the board of control; in 1846, judgegeneral; in November of the a queen's counsel; and in July, 1847, a the privy council. In Nov. 1847, he president of the poor-law board, but hi ing career, which pointed to him as o future great statesmen of England, short by death a year afterward. His the treatment of public questions we evident in his writings, most of which ed in the journals of London and the periodicals of the country.—Siz Fz. English judge, born in 1745, died June He acquired some reputation by his tion relative to trials at nisi prins, which sidered a standard work, and has passed many editions.

BULLET, or Ball, a round piece o

iron, used to load a musket or cannot the invention of gunpowder to the beg this century bullets were made spheric best material to make bullets is the heav is used for musket bullets, but this sub too dear and too scarce for cannon l cast-iron, though much lighter, is used. Balls are made by casting; cess leaves a rough surface. This is tant in seed bullets, as the metal is soft: way; but in cast-iron balls it is a cause for the cannon, and means are employe more finish to the surface. Numerous during the last fifty years have expe on the form of bullets without marked till Captain Minié, of the French army, s in introducing his cylindro-conical bulk desiderata of bullets are: 1st, that the actly the bore of the gun; 2d, that w jected, they proceed with a rotary mot that they be shaped so as to encounter resistance from the air; 4th, that the the bullet, or at least the forward part solid substance to cut through obstacl Minié bullet is for rifles, and is made of shape is that of a cylinder of nearly th ter of the rifle, one end of which co point in a conical shape, and in the oth curved recess is left. The effect of powd firing, is to expand the thin portion around the recess, and to make it fit t the grooves of the rifle. Leaden bull been made with a steel point. The ex of lead to make the bullet fit has been ed by inserting in the end of the bulk of iron, which was forced in by the sion of powder, at the first instant, be inertia of the bullet had been overcon best cannon ball was patented in the United States, by S. M. Sigourns cast of the shape of Minie's bullet withou cess at one end; it is a cone and a cyli a common basis; the cylinder is smal the bore of the cannon, except at the bottom, where rims are left projecting: of an inch; between these rims there the body of the cylinder, three ribs, the grooves in the bore, projecting :

to fill these grooves. After being cast, the ball is placed on a lathe, where the rims are tarned to the exact diameter of the bore, and where a peculiarly made planing tool cuts the ribs to the proper shape and angle to corre-pond with the grooves. This ball, placed in the gun, fits perfectly, and only the turned and planed portions of its surface are in contact with the cannon. It has been lately discovered that the rotation of a bullet combined with the force of gravity produces a motion sidewise; this fact is as yet but little known, but will at some interestime be the occasion of improvements. The best form of a bullet is identical with the best formed a vessel, both being bodies cutting their way through fluids the resistances of which obey the same physical law. The best known shape for the bows of a vessel is that of clippers, that is sonce ve curve. It has been also found that the shape of the stern has much to do with the velocity of a ship. It seems that those who device bullets have not made these remarks, and that there is yet room for improvements. Various machines have been contrived for redscing bullets from the bars of lead; some y cesting them in moulds, and others by forcg the bits of lead into dies, and by compresion giving to them their form. One of these machines, recently invented by Mr. Wm. H. Ward, of Auburn, N. Y., cuts the pieces for the bullets from lead-wire of suitable in regularly fed to it, and compresses them isto any sort of bullet, for musket, pistol, or rife, that is required. Eight bullets are prodated by every revolution of the machine; and this is capable of being worked up to 25 turns in a minute. The bullet adopted for the U.S.

"ride musket," which is to supersede the old
gramusket, is an elongated, hollow, pointed
hal, weighing 497 grains.

BULLETIN (It. bullettino), a word derived immediately from the French, and the diminative of the low Latin bulla. In the French army, the public despatches of the general are called bulletins. Many learned societies call their transactions bulletins, among others the St. Petersburg and Belgian academia, and the archæological institute of Rome. The authorized collections of the laws and ordinaces of the French government were once called bulletin des lois. The tickets on which the elector inscribes his vote are termed in France bulletine.

BULEINCH (pyrrhula rubicilla, Pall.), a bird of the finch family, a native of northern and temperate Europe. The bill is remarkably short and thick, of a black color, and convex in all is outlines; the head is large, the neck short, and the body stout. The length of the sale bird is 6 inches, the extent of wings 10 inches, the bill about one-third of an inch. The plumage is soft; around the base of the bill the feathers are bristly, concealing the lastrils; the third quill of the wing is the longest; the tail nearly straight, consisting of twive broad rounded feathers. The eyes are

dark brown, the feet dusky, the claws brownish black. The upper part of the head and a band at the base of the lower jaw are glossy bluish black; the hind neck, back, and scapulars ashy gray; the rump and lower tail coverts white; the upper coverts and tail bluish black; the quills and primary coverts are brownish black, the outer webs of the secondaries being glossed with blue; the secondary coverts are tipped with gray or grayish white, forming a bar on the wing; the cheeks, front of the neck, breast and sides are light crimson; the belly grayish white. This is the ordinary male plumage, which in captivity becomes some-times very dusky. The female is a little smaller; the coloring is similar, but the tints are much duller; the parts which are red in the male are dull grayish brown in the female. The bullfinch is fond of wooded and cultivated districts, avoiding barren tracts near the sea and bleak islands; it is gregarious, but seldom associates with other birds; it is not migratory, but frequents the woods and thickets of England during the whole year. Its flight is quick and undulating; its notes are soft, low, plaintive, and mellow; it is often caged for its beauty, and in captivity becomes very docile, and may be taught a variety of tunes. During the greater part of the year it lives in the thickets and woods, occasionally visiting the fields in search of seeds. In the spring it is very destructive to the buds of the gooseberry, cherry, plum, and other fruit trees. It begins to build its nest in the beginning of May, of small, dry twigs and fibrous roots, generally in a thorn bush, thick hedge, or bushy spruce; the eggs, 4 or 5 in number, are of bluish or purplish white color, speckled and streaked with purple and reddish brown. The young at first resemble the female, but without the black on the head; the male does not acquire the full red tint until the second year.

BULLHEAD, the popular name of several species of cottoid fishes, principally of the genera cottus and acanthocottus, inhabiting both fresh and salt water. All were formerly confounded in the genus cottus, but Mr. O. Girsed ("Smitheauter Contributions to Knowledge of the Contributions to the Contributions to the Contribution of the Contributions to the Contribution of the Contribu Girard ("Smithsonian Contributions to Knowledge," vol. iii.) has separated them, restricting the genus cottus to the fresh-water species, while he gave the name acanthocottus to the marine species, more commonly called sculpins. These two groups are distinguished very easily: the head of the former is smooth or nearly so, that of the other is tuberculous or armed with spines; the former is not found in salt water, nor the latter in fresh, though it is sometimes found in the brackish water of the mouths of rivers. For the minute characters of the genera and species, the reader is referred to the work above alluded to, and to the "Proceedings of the Boston Society of Natural History," vol. iii., p. 183. The most obvious characters are the following: In acanthocottus, the opercular apparatus is armed with strong spines; the surface of the head, and often the circumfer-

ence of the orbits, is similarly armed, or is serrated in various ways; the nasal bones are in some species surmounted by a ridge or spine; the head is high and broad, occasionally deformed, with very large eyes and an immense mouth; the body is without scales, the back often arched, and the first dorsal almost as high as the second; the soft rays are 3 or 4 in the ventral fins; the lateral line runs uninterrupted and distinct from the head to the base of the tail; in the cottoids, the lateral line is remarkably developed, being in some a regular cartilaginous tube with a series of openings communicating by pores of the skin with the surrounding water, leaving no doubt that this line in fishes is intended to supply water to the system. The common bullhead or sculpin (A. Virginianus, Willoughby) is well known to every boy as a perfect pest and scarecrow among fishes. The body is of a light or greenish brown above, with irregular blotches arranged as 4 transverse dark brown bars; the abdomen is white, occasionally stained with fuliginous; the dorsals are crossed by dark brown bands, the pectorals light yellow with concentric brown bands, and the ventrals, anal, and caudal yellowish white, also banded. length is from 10 to 18 inches, of which the head is about one-third. There are 10 naked spines on each side, on and about the head, the largest being at the posterior angle of the preoperculum, and partially covered with a loose membranous sheath; there are also strong scapular and humeral spines, so that it is rather a difficult species to handle; the gape of the mouth is large, and the jaws, pharynx, and palate are armed with numerous sharp, card-like teeth; the caudal fin is even at the end. This species is found from New Brunswick to Virginia. Another species of the New England coast is the Greenland bullhead (A. variabilis, Gd., and A. Groenlandicus, Cuv.); these may be different species, but they are described under one head by Dr. Storer, in his "Fishes of Massachusetts," in "Memoirs of the American \mathbf{A} cademy, " vol. v. p. 74. This is darker colored than the common sculpin, with large claycolored blotches on the top of the head and gill covers, smaller ones on the back and sides, and circular yellow spots on the sides near the abdomen, which is yellow tinged with red, and the throat dull white; the fins are more or less banded and spotted with yellow; the sides are rough from granulated tubercles. The length is about a foot, of which the head is one-fourth; this is armed with spines. These ill-favored sculpins are the favorite food of the Greenlanders, though rarely, if ever, eaten by They are very troublesome in the fishing grounds of the British provinces, and often compel the vessels to remove to another place. as experience proves that their presence drives away all desirable fish. The bullheads are very voracious, devouring small fish, crabs, echino-derms, molluska, and almost every thing, even decaying matter that comes in the way. There

are several other American species describ by Mr. Girard. The genus cottus (Artedi,) has but one small spine at the angle of the pre operculum, and sometimes another smaller den under the skin, and perceptible only to touch, at the lower margin of the suboper lum; the head is depressed, truncated in fr and broader than high; mouth less d cleft than in acanthocottus, but, like having teeth on the intermaxillaries, lower maxillaries, and front of the vomer; body smooth, gradually tapering to the tail; sec dorsal higher than the first, ventrals with 4 soft rays; lateral line generally interrupted The river bullhead (C. gracilia, Heckel.) exceeds 3 inches in length, and is of a green color, with irregular dark brown blow largest posteriorly; it is found in the England states and New York. The C. rece sus (Hald.) is about 4 inches long, and inl eastern Pennsylvania and Maryland; the on is yellowish, clouded with black, the first dursal fin being edged with a narrow line orange; it receives its name from the mon sliminess of the skin; it delights an spring waters with pebbly bottoms, and concealed under stones and stumps, close the bottom, and, when disturbed, hastens to a fresh cover; the eggs are laid in April May, in round packets about the size of ounce bullet, under boards and stones; is supposed that they are watched by the par from her having been found under the cover. Many other species, all small described by Mr. Girard as American; o are found in the colder portions of the temate zone in Europe and Asia, at le 5: 5: it probable that many have been a under C. gobio (Linn.). The family or a appeared on the earth some time duri last period of the cretaceous epoch, the . cottus appearing in the tertiary. The cottus appearing in the tertiary. The cottoid in the Columbia river, a prickly bullhead, for which Mr. Guard established the genus cottopeis, resembli marine species in its size, but the fresh species in its smooth head; the body is I with prickles, there is one preopert on each side, and the teeth of two bones are card-like; its length is from suinches; it is the C. asper (Gd.). The bullhead is also given to some species or dophorus (Lacép.), and hemitripterus (Cuv., marine genera, extending from the New England coast to the Greenland seas.

BULLINGER, HEINEICH, a Swiss Pr theologian, born at Bremgarten, July died in Zürich, Sept. 17, 1875. He himself with Zwingli, and became his successed as pastor at Zürich in 1831. He took an active part in the theological discussions of the time, was one of the authors of the first Helvetic confession in 1836, and was sole an thor of the second Helvetic confession. He was the principal cause of the close relations established in the reign of Edward VI between the Anglican and the Swiss

BULLITT, a northern county of Kentucky, with an area of 250 sq. m. It is watered by Salt river, and the Rolling Fork of that river touches its S. W. boundary. The surface is hilly and the soil fertile. Pine woods abound, and there are numerous mines of superior iron ora. The productions in 1850 were 418,530 bashes of Indian corn, 82,298 of cats, 2,990 lbs. of tobacco, and 18,146 of wool. There were soon and flour mills, 10 saw mills, 4 tanneria, 2 iron furnaces, several woollen factories, 10 churches, and 150 pupils attending public chools. Value of real estate in 1855, \$1,443,-198. The county is traversed by a railway designed to connect Louisville (Ky.) with Nashvilla Pop. in 1850, 6,784, of whom 1,365 were down. Capital, Shepherdsville.

BULLOCK, an eastern county of Georgia, him between the Ogeochee and Cannouchee riven, and covering an area of 900 sq. m. The cinate is healthy, the surface is generally level, let the soil is poor and sandy. Cotton, rice, squa, and corn are the chief productions. The pine firests which cover a large portion of the centy abound in game. Capital, Statesborcach. The productions in 1850 were 112,475 ha of rice, 60,610 bushels of sweet potatoes, 86,613 of Indian corn, and 2,237 of oats. There were 12 grist mills, 2 saw mills, 10 churches, and 253 pupils attending public schools. Value of real estate in 1856, \$596,839. Pop. in 1855,

4541, of whom 1,606 were slaves.

BULLS, in stock-exchange parlance, see

BULMER, WILLIAM, an English printer, born at Newcastle-upon-Tyne, in 1746, died at Clapham, Sept. 1830. He labored for some time with John Bell, in London, who published some fan miniature editions of the British poets. He was subsequently put at the head of Nicol's establishment for the printing of a magnificent edition of Shakespeare, the first numbers of which appeared in 1791.

which speared in 1791.

BUIOLA, a river of Senegambia, western Africa. It passes through the country of the Ruffres and empties into the Atlantic. On a small tributary of this river, 60 miles distant from the sea, stands the town of Bulola.

BULOW, FRIEDBICH WILHELM, Count von Dunswitz, a Prussian general, born Feb. 16, 176, 3ed Feb. 25, 1816. At the earliest period of Napoleon's European wars, he was engaged against him. In 1808 he was made a general of brigade. In 1813 he was ennobled for his victories at Méckern, Luckau, Gros-Beeren, and Dennewitz. He subsequently distinguished himself in Westphalia, Holland, and Belgium, and contributed essentially (as Wellington warmly achowledged) to the victorious close of the battle of Waterloo, in which he commanded the 4th division of the allied army.—Heinrich, baron, a Prussian diplomatist, born at Schwerin in 1790, died in Berlin, Feb. 6, 1846. While a student at Reidelberg, in 1818, he was called home to take

part in defending his country from the French. After serving in various engagements under Count Walmoden, he returned to Heidelberg, to complete his studies. Through the joint influence of Prince Hardenberg and Wilhelm von Humboldt (whose daughter he afterward married), he was allowed to enter the diplomatic service of Prussia. From 1826 to 1841 he officiated as Prussian ambassador in England, and took an important part in the conventions of 1830 and 1840 on the French, Belgian, and Oriental questions. From 1841 to April, 1842, he acted as Prussian ambassador to the German diet in Frankfort, and from the latter period to 1845 as minister of foreign affairs in Berlin.

BULRUSH (scirpus lacustris, Linn.), an aquatic plant, with a large cylindrical stem from 8 to 8 feet high, the sheath often bearing a small, linear, awl-shaped leaf, and the culm tipped with an erect and pointed in volucral leaf. It has numerous spikes in a compound umbel-like panicle, and ovate, swordshaped scales. It is a native of Europe, and is now common in rivers and ponds on the continent, in England, North America, and New South Wales. The root was formerly used in medicine for its astringent and diuretic qualities. The leaves and stem are tough and fibrous, and are employed for thatching, and making matting and chair-bottoms.

BULSAR, or Bulsaur, a thriving town in British India, district of Surat, presidency of Bombay. Many of the inhabitants are weavers and sailors; others are engaged in agriculture. Cloths are manufactured here, and an active trade is carried on in grain, timber, sugar, and salt. The estuary of the river Bulsar, on which the town is situated, is obstructed by a bar. Pop.

7,000.

BULTI, or BULTISTAN, or LITTLE THEET (Iskardoh), a state of central Asia, tributary to the rulers of Cashmere, in the north-western part of the mountainous curve of the Himalayas, forming the north-eastern boundary of Hindostan. It is on the N. slope of the chain, and in the valley of the Indus. It is the N. W. part of the little division laid down on our present maps as central Thibet (Ladakh). It is a table-land, 6,000 feet above sea level, and the surrounding peaks rise 7,000 feet higher. The climate is therefore cold, though European fruits abound. The inhabitants are Tartars, and their religion Mohammedan. The land was subdued by Gholab Singh in 1846. Until then it was an independent state, the last independent ruler having been Ahmed Shah. The area is estimated at about 12,000 sq. m. and the population at about 75,000. The capital is Iskardoh.

BULUBGURH, or BALLAMGARH, the principal town in the jaghire of Bulubgurh or Furredabad, under the lieut.-gov. of the North-West Provinces, Hindostan. The jaghire, which is governed by a rajah of the Jaut tribe, extends for 26 miles along the right bank of the Jumna, and is bounded N. W. by Delhi; E. and N. E.

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by Boolundshahur; S. and S. W. by Goorgaon. Area, 190 sq. m.; pop. about 57,000. At one period (about 1830), during the minority of the hereditary chief, the tract was taken under British management, but was restored to the rajah on his coming of age, and its relations to the British are now but imperfectly understood. The annual revenue of the state is estimated at 160,000 rupees, and the annual expenditure at 130,000. The military force consists of 100 cavalry and 350 infantry. The town of Bulubgurh, situated on the road from Delhi to Muttra, 29 miles S. of the former city, in a pleasant, well-cultivated country, is tolerably well built, but small. The streets are narrow, the houses tall, and the temples numerous. The palace of

the rajah is a neat edifice. BULWER, SIR HENRY LYTTON EABLE, English diplomatist, born in 1804, is an elder brother of Sir Edward Bulwer Lytton. He was educated for public life, and, in 1827, was attached to the British embassy at Berlin, and in 1829 to the embassy at Vienna. He was sent to Brussels in 1830, to watch the progress of the Belgian revolution. In the same year he ras returned to Parliament for the borough of Wilton, and in 1881 for Coventry. In 1832 he was attached to the British embassy at Paris; represented the metropolitan borough of Marylebone from 1884 to 1837; was made secretary of legation at Brussels in 1834, and subsequently filled the same office at Constantinople and Paris. He remained at the latter place until 1848, when he was sent to Madrid as envoy extraordinary and minister plenipotentiary, where he negotiated the peace between Spain and Morocco in 1844. During the disturbances in Spain in 1848, he was the medium, more than once, of conveying to Gen. Narvaez the remonstrances of the British government on the arbitrary system he was pursuing. Narvaez, who knew his sympathy to be with the liberals, accused him of complicity in certain plots said to be formed against the Spanish government, sent him his passport, and insisted on his quitting Spain. The British government marked their sense of this treatment by naming Mr. Bulwer a knight of the bath; by dismissing Senor Isturiz, the Spanish ambassador in London; and by withholding the appointment of an ambassador to Madrid for nearly 2 years, when Lord Howden was appointed. It is said that Narvaez eventually made an apology, the terms of which were dictated by Lord Palmerston. In 1848, Sir Henry Bulwer married the youngest daughter (born in 1817) of the first Lord Cowley, and niece to the duke of Wellington. In April, 1849, he was sent as ambassador to the United States, and in that capacity negotiated the Clayton-Bulwer treaty. He was transferred to Tuscany in 1852, as envoy extraordinary, and held that appointment until January, 1856. He was subsequently sent on a special mission to the East, and in 1858 was appointed ambas-sador at Constantinople.—Sir Henry Bulwer, in parliament, was a frequent and fluent speaker,

and has always held liberal opinions. If author as well as a politician, having pu "An Autumn in Greece;" "France, Soc Literary;" "The Monarchy of the Classes," and a "Life of Lord Byron," p to a Paris edition of the poems.

BULWER, JOHN, an English physic 1596, died in the first part of the 17th c who devoted his life to the l ment of discovering and applyimentation the deaf and dumb.

on the art of speaking on the firs (C mia and Chirologia) appeared in 1644.

BULWER, ROSINA (LADY BULWER l born in Ireland in 1807, married to ward (then Mr.) Rulwer, Ang. 29, 1884.

ward (then Mr.) Bulwer, Aug. 29, 182' was granddaughter of Hugh, 2d Lord of Duntryleague, co. of Limerick, Ire only surviving daughter of Mr. Fran er, of Lizzard Connell, in the sa After living with her husband for severa a separation took place. Lady Bulwer who had decided literary tastes, occ contributed to magazines during the fin of her wedded life. A classical sketch, i entitled "The Supper of Sallust," apper an early volume of "Fraser's Magazin 1889 was published her first novel, "Cl or the Man of Honor," to which have a ed "The Budget of the Bubble Fi "Bianca Capello," an Italian story; " of a Muscovite," a tale of modern Ital "The Peer's Daughters," illustrative of of Louis XV.; "Behind the Scenes;" School for Husbands, or the Life and T Molière," and "Very Successful." Ane from her pen appeared in 1858. "The World and his Wife; or, a Person sequence." Five of these works are v under a very thin guise of fiction, for a abuse of the author's husband, and his and brother. A pamphlet, circulated du parliamentary session of 1857, sets fort plainly and particularly, the grounds, assumed, of Lady Bulwer Lytton's quar and separation from her husband. 18, 1858, she created not a little excit Hertford, by making her app hustings, for the purpose of comrone husband, who was addressing his con Her historical novels, though overload quotations in various languages, dead as living, show considerable acquaintance lives and characters of eminent perso well as of the countries in which the Two children were the fruit of Lady Lytton's marriage. One of these, a died in youth. The other, EDWARD born in 1881, heir to his father's title was attached to the British emb ington (under his uncle, Sir Henry 1849; was transferred to Florence in and in 1856, under the nom de pla Meredith, published a volume enu-temnestra, the Earl's Daughter, Poems."

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t year, a satirical poem entitled Twins." "Eugene Aram" ap; "England and the English," Student," in 1835. Previous to en for some time editor of the r Magazine." In 1834 appeared of the Rhine" and the "Last eii;" in 1835, "Rienzi, the Last eii;" in 1837 he wrote "Athens, all," a work of historical critinest Maltravers," and the conness ame, "Alice, or the Mys; "Leila, or the Siege of Granan 1840; "Night and Morning," 1842; and the "Last of the In 1836 he first entered the lists riter. The "Duchess de la Vallure, but the "Lady of Lyons"
"were, on the other hand, very foney," a later comedy, was also The "Poems and Ballads of ted into English metre, appearance the Illemental Marriage.

read on the continent of Europe than Bulwer. His works have been translated into nearly all the living languages of Europe. In America he has found republishers in Boston, New York, and Philadelphia.-Mr. Bulwer entered the house of commons as member for the small borough of St. Ives in 1831. He joined the ranks of the reformers. In 1832, when St. Ives had been deprived of its representative by the reform bill, he was elected by the city of Lincoln, which he continued to represent until 1841. He did not acquire in parliament any general influence. His efforts to relieve newspapers from the stamp duties and his speeches on the copyright question are the only points of his parliamentary career at this period of his life which have not passed into oblivion. He adhered rather to the radical than to the whig branch of the liberal party. In 1885 he published a political pamphlet, entitled the "Crisis," which ran through 7 editions, and was very serviceable to the whigs. He was created a

returned as member for Herts. In June, 1858, he became a member of the Derby cabinet as successor of Lord Stanley in the office of secretary of state for the colonies.

BUNAISOR (anc. Vanisuara), a town in the presidency of Bengal, British India. It is now in ruins, and is said to contain a great number of temples, one of which surpasses in size the famous temple of Juggernaut.

BUNCOMBE. I. A county of North Carolina, near the border of Tennessee; area, 450 sq. m., occupied in great part by mountains and valleys of the Appalachian system. The Blue Ridge is on or near the S. E. boundary. The French Broad river is the principal stream. The soil is fertile, and affords excellent pasturage. In the N. W. part are celebrated warm springs. The productions in 1850 were 487,014 bushels of Indian corn, 27,548 of wheat, 135,304 of oats, 8,243 tons of hay, 127,677 pounds of butter, and 1,899 of tobacco. There were 86 corn and flour mills, 7 saw mills, 2 newspaper offices, 44 churches, and 4,682 pupils attending public schools. Value of real estate in 1857, \$1,164,265. The county was formed in 1791, and named in honor of Col. Edward Buncombe, an officer of the continental army. Pop. 13,425; 1,717 being slaves. Asheville is the capital. The origin of the phrase, "talking for Buncombe," is thus explained: "Several years ago, in congress, the member from this district arose to address the house, without any extraordinary powers, in manner or matter, to interest the audience. Many members left the hall. Very naïvely he told those who remained that they might go too; he should speak for some time, but 'he was only talking for Buncombe.'" (Wheeler's History of N. C.) II. A north-western county of Iowa, bordering on Minnesota, and having an area of 800 sq. m. The Inyan Reakah river intersects it, and the Sioux forms its W. boundary. In the E. part is Ocheyedan lake. county is not included in the census of 1856.

BUNDELCUND, or the BUNDELA COUNTRY, an extensive province of Hindostan, between lat. 23° 52' and 26° 26' N., long. 77° 53' and 81° 89' E. Area, 18,099 sq. m.; population, 2,260,714. It comprises the British districts of Bandah, Hummerpoor and Calpee, Jaloun, Jeitpoor, Churgaon, Duboi, and Gurota, and a number of petty native states and jaghires, all under British protection. Up to 1857, it was included in the North-West Provinces, but on the overthrow of the lieutenant-governor's authority by the sepoy revolt, it was erected, with Goruckpoor, Benares, Allahabad, the Lower Doab, and Saugor, into a new government called the Central Provinces, of which Mr. Grant, a member of the supreme council, was appointed lieut.-governor. It is a hilly country, traversed by the 3 ranges of the Bindyachal, Bandair, and Punna, the last of which is rich in diamonds and coal. From these mountains flow numerous rivers, including the Bet-wah, Desan, and Cane, all affluents of the Jumna, which flows along the N. E. boundary. The

soil produces almost every kind of fruit known in India. The climate in some places, but in others, ch is fatal to Europeans. The chow pee, Bandah, Jhansi, Dutt word and Callinger.—The earliest uominans p Bundelcund, of which there is certain re that of the Chundel Rajpoots, from the the 12th century. Under them the reached its culminating point of prosper on their decline was occupied by the Bu a branch of the Garwha tribe of R About 1784 the district of Jhansi and part of eastern Bundelcund were made the peishwa, in consideration of servic dered by him in a contest with the emp Delhi. The remainder of the country gr became divided into petty chieftainships sant wars naturally followed; and in 1 Mahrattas made a partially successful : to subjugate the entire territory. Soc the peishwa ceded to the British the d Hummerpoor and Bandah, and in 181 treaty of Poonah made over to them all maining possessions in Bundelcund. The of the East India company was not in the ceded districts without much from the secondary chieftains, but pacification the country remained compa tranquil until 1857. It was seriously affe the sepoy rebellion, though the native are said to have generally sided with the Mutinies took place at Jhansi (June 4) gong (June 10), and Bandah (June 14 rising at the first of these places was : with the massacre of about 70 Europ whom were 19 women and 23 Europeans at Nowgong escaped by those at Bandah were protected by tne. of that place, a titular prince who rec pension from the E. I. company. Sir H recaptured Bandah, Jan. 81, 1858, and Jhansi, after a siege of 12 days, April latest accounts (July, 1858) left him m toward Calpee, where the sepoys had been gathering in great force. He v on the route by a body of 7,000, so the rance of Jhansi and a brother or Sahib, whom he defeated in a pitched l

BUND-EMIR, or Bund-EMERE (anc. a Persian river, rapid and apt to inu banks. It is 150 miles long, and emp. Lake Bakhtegan.

BUNGE, ALEXANDER, a Russian bo traveller, born at Kiev, Sept. 24, 1 was educated at Dorpat, and after the degree of M. D., in 1825, he traveller beria and the eastern part of the Alta tains, and then joined the mission academy of St. Petersburg to Pekin. mained 8 months at Pekin and proceextensive herbarium. In 1 by in of the academy of St. Peters . he second Asiatic journey, and in 16 professor of botany at Dorpat. 1115 p publications are catalogues of the plants

he collected in China and near the Altai mountains.—Frederic George, brother of the preceding, a historical writer upon law, born at New, March 1, 1802. He was educated at Dorpat, and since 1831 has been professor of law there; and since 1842 has been burgomaster of Revel. His writings, principally upon the history of law and rights in the countries around the Baltic sea, are numerous, and valuable.

BUNION, a swelling on the inside of the fast joint of the great toe, is caused by the pressure of tight boots or shoes. some term is sometimes applied to a similar kind of swelling on the first joint of the little to, or on the instep. Those who are troubled with busions have the great toes turned outward and the little toes inward to an unnatural extent, from wearing boots or shoes too narrow at the extremities, which force the toes out of their natural position. The proper remedy is to wear loose boots or shoes made of cloth or of set leather, with sufficient room for the free movement of the toes, and space enough for the bunions. High heels should also be discardd as they throw the foot forward in the boot, and thus increase the pressure on the instep and the toes. When a bunion is not inflamed. the pressure may be partially removed by applying over it and the surrounding parts a see of thin linen or silk spread with dischylon place of thin lines or sus spread in the place of thick sekskin leather of the same dimensions, also covered with diachylon, and perforated with a bole the size of the bunion; the pressure is the thrown on the adjacent parts. walking in warm weather may bring on inflammation of the bunion, which then becomes peinful; in which case poultices, fomentations, or keeches may be necessary; or if matter forms, the lancet may be required to give vent to it.

BUNKER HILL, a round, smooth elevation is Charlestown, Mass., 110 feet high, commanding the peninsula of Boston. It was connected by a ridge on its southern slope with Breed's hill, about 75 feet high, the crests of the 1 hills being about 700 yards apart. These highs are famous for the battle fought on the between the British and American forces, Jun 17, 1775. The city of Boston was at that time occupied by the British under Gen. Gage, who had recently received large reënforcements under Generals Howe, Burgoyne, and Clinton. Around Boston, having their head-quarters at Cambridge, were the minute men of Massachusetts and various bodies of militia and parties of volunteers, as yet independent of each other, obeying their several commanders, knowing little of military discipline, united only by their devotion to the common cause, but of which Washington in person was soon to take command. Gen. Artemas Ward, the selection of Massachusetts, was, however, in general regarded as commander-in-chief, while Prescott, Putnam, Gridley, Stark, and

Pomeroy, who had learned the art of war in the old contests between England and France, served under him. The beleaguered and now reenforced British, had determined to begin offensive operations against the rebels. This design became known in the American camp, where the daring counsels of the officers and the inexperienced eagerness of the soldiers at once suggested the project of anticipating any movement of Gen. Gage. It was determined to seize and fortify the heights of Charlestown on the night of the 16th of June, and Col. William Prescott, of Pepperell, whose military port, garb, and reputation alike gave him consequence, received command of a brigade of 1,000 men to execute this perilous enter-prise. The detachments paraded soon after sunset, on Cambridge common, where prayers were offered up by Langdon, the president of Harvard college. At about 9 o'clock they began their march toward Charlestown, and near the isthmus called Charlestown neck were joined by Major Brooks and Gen. Putnam, and by the wagons laden with intrenching tools. Prescott conducted them undiscovered up the ascent of Bunker hill, and thence, after a consultation, to Breed's hill, which was nearer to Boston, and had better command of the town and shipping. There the lines of a redoubt were marked out, and a little after midnight the first sod was thrown up. Twice during the night Prescott repaired to the water's edge to be sure that his party was unobserved, and heard the drowsy sentry's cry from the decks of the British men of war, "All's well." At dawn of day a strong redoubt, flanked on the left by a breastwork which extended northerly toward a piece of low land called the Slough, was already completed, and was espied from the ships in the harbor. These immediately brought their guns to bear upon it, and the cannonade awoke the citizens and occupants of the town, who crowded to gaze with wonder upon the bulwark which had so silently and suddenly sprung up. Gen. Gage with his telescope descried the tall figure of Prescott walking the parapet and encouraging the men, and asked quickly, "Will he fight?" "Yes, sir, to the last drop of blood," was the answer from one who knew him. Meantime, amid an incessant shower of shot and shells, on one of the hottest days of the season, after having toiled all night, and possessing but scanty supplies, the Americans steadily pursued their work till about 11 o'clock. At that time the intrenching tools were removed by Putnam to Bunker hill, with the design of forming a new breastwork there. Prescott strengthened his right flank by some troops thrown into the village of Charlestown at the southern foot of the hill, and on the left, at the very moment of battle, a fortification against musket balls was completed by the intertexture of 2 rail fences and the new-mown hay of the meadows. While the military din and clatter which reëchoed from the streets of

Boston announced an impending attack, Prescott repeatedly sent messages to Cambridge asking for reenforcements and provisions, and Putnam went in person to urge the exigencies of the case. Yet Ward hesitated to expose his stores and to risk a general engagement by weakening his main body, and it was not till 11 o'clock that orders from him reached Stark at Medford to advance to the relief of Prescott. This veteran was at the head of 500 New Hampshire troops, and wisely and warily led them on at a moderate pace, determined to bring them fresh into battle. He appeared on the heights at about 2 o'clock, and took his position on the left to maintain the rustic bulwark which reached toward the Mystic. the same time Warren arrived, and after declining the command, which was tendered to him by Putnam at the rail fence, and by Prescott on Breed's hill, entered the redoubt as a volunteer, and was cheered by the troops as he selected the place of greatest danger and importance.—Already the British army of assault had landed. Gen. Gage had decided, in opposition to a majority of his council, to attack the Americans in front instead of in rear, in the conviction that raw militia would flee before an assault of veterans. At about 1 o'clock, in plain sight of the Americans, 28 boats and barges, containing 4 regiments of infantry, 10 companies of grenadiers, 10 of light infantry, and a proportion of field artillery, in all about 2,000 men, bore away from Boston under cover of a heavy fire from the ships in the harbor, and landed without opposition at Moulton's Point, a little to the north of Breed's hill. Gen. Howe commanded the right wing, which was to push along the bank of the Mystic river, and attempt to force the rail fence, and so to out-flank and surround the whole American party; Gen. Pigot commanded the left wing, which was to mount the hill and force the redoubt. Reënforcements were on their way toward the American lines during the whole day, but the whole number who arrived in time to take part in the action did not exceed 1,500 men. Prescott commanded upon the redoubt, Knowlton and Stark on the left, and Putnam was active and efficient, in various ways, now planning additional fortifications on Bunker hill, now scouring the whole peninsula to hurry up reenforcements, and now mingling with, encouraging, and threatening the men at the rail fence. 2 columns of the British, after partaking of refreshments, advanced to a simultaneous assault at a little after 21 o'clock. With their scarlet uniforms and flashing armor they pre-sented a formidable appearance, and Gen. Pig-ot's division ascended the hill in good order, discharging their musketry, and galled only by a flanking fire from the Americans in Charlestown. The men in the redoubt, obedient to the strict command of Prescott, withheld their fire till the enemy had approached within 8 rods, when a tremendous volley was discharged, and nearly the whole front rank of the British

fell. The assailants, recoiling for a again advanced, and were met by a volley more effective than the Americans were all marksmen, and is minutes an unremitting fire was kept tween the 2 armies, till the British st and retreated in disorder, some of tl to their boats. Gen. Howe's div like manner moved gallantly forv ceived at the distance of 9 rods uy a and deadly fire from the whole line of fence, and forced after a struggle fusion and a precipitate retreat. ments following this first check given England husbandmen to the veteran be of the mother country, were employed American officers in cheering and p men. Meantime Charlestown neck, or recruits were hurrying to the action, v by an unceasing discharge of balls aushells from the neighboring British b ships; the village of Charlestown, in so much annoyance had been in the first attack, was set on fire u thrown from Copp's hill, and its 500 edifices burst into a blaze; and wl thunder of artillery, the cracking o shells, the dense volumes of fiame and the crash of burning buildings, and the of the combatants, made a scene than wrote Burgoyne, "nothing ever has can be more dreadfully terrible," the began their second attempt to sto doubt, firing musket shots as they in hill. The Americans reserved their man enemy was within 6 rods, and then : aimed with the fatal skill of sharp-sho its accustomed execution. The Bri ever, pressed boldly forward in the continuous stream of fire, but st reaching the redoubt, and in monstrances, threats, and even blown officers, again gave way, and retreated it confusion than before, leaving some dead within a few yards of the wo grass fence on the left was at the a maintained against Gen. Howe, whose suffered severely in loss of men and The crowd of spectators on the opp beheld with astonishment the succe of raw militia against veteran n the British soldiery in Boston reconsternation the convoys of wounder were brought back to the town. Gen. who from Copp's hill had watched th now hurried over as a volunteer with re ments. The terrible scene was new American troops, but they answered wit when Prescott cried, "If we drive th once more, they cannot rally again." now discovered that the ammunition we exhausted, and when the engagement newed the Americans had each only fi 4 charges of powder left, and not more bayonets in all. The British advance divisions, from the south, east, and no

ad when close at hand received the same morderous volley which had never during the by been poured in upon them without making then recoil for an instant. They advanced with fixed bayonets, and the American fire immediately slackened. The last round of ammairion shot down those of the enemy who in mounted the parapet, one of whom was Moor Pitcairn. There was for some time a handto hand struggle carried on by the Americans with their few bayonets, the stocks of the makets, the barrels after the stocks were broken off, and even with stones, till, the wings of the British getting into the rear of the reduct, at a little before 4 o'clock Prescott gave the order for retreat. He himself was one of the last to leave the redoubt, parrying with his sword beyonets which pierced his coat, and his me ou their way through the 2 divisions by when they were nearly surrounded. nesived a destructive volley as they left the nedock, and Warren fell shot through the head with a bullet. Stark and Knowlton maintained their station at the rail fence till the troops of Presont had left the hill, and then retired dowly, Pomeroy, a veteran of 70 years, firing back upon the enemy till his musket was bettered by a ball. The retreat was across baker hill, where they were encountered by Putam, who had been collecting reënforcements, and who, amid whistling balls, sought is van to rally them to make a stand at the which he had constructed. The retreat was harassed by a raking fire from the British ships and batteries, but there was pursuit beyond Charlestown neck. Putmm, who had assumed the supreme direction after the retreating forces left Bunker hill, milied a portion of the fugitives, and encamped that night on Prospect hill. Prescott repaired to head-quarters at Cambridge, and was so lattle discouraged that he offered with 8 regiments to recover his post. Indeed, the result of the battle, though a defeat, had all the moral effect of a victory. The Americans had seen sperior numbers of the disciplined soldiers of Legiand retreat before their fire, and were wanded, by the account of Gen. Gage, at least 1,054, among whom were 70 commissed officers wounded and 13 killed. The whole has of the Americans was 145 killed and mining, and 304 wounded. The death of Warrea, one of the most guileless and ablest of patriots, caused profound and universal sorrow.— In the centre of the grounds included within the redoubt on Breed's hill, now stands the chaisk known as Bunker hill monument. It is square shaft, built of Quincy granite, 221 at in height, 31 feet square at the base, and 15 at the top. Its foundations are enclosed 12 feet under ground. Inside of the shaft is a round hollow cone, 7 feet wide at the bottom, and 4.12 feet at the top, and encircled by a rinding stair-case of 294 stone steps which

leads to a chamber immediately under the apex, 11 feet in diameter. This chamber has 4 windows, which afford a wide view of the surrounding country, and contains 2 cannons, named respectively "Hancock" and "Adams," which were used in many engagements during the war. The corner-stone of this monument was laid on the 50th anniversary of the battle, June 17, 1825, by Gen. Lafayette, then the nation's guest, when Daniel Webster, pronounced an oration to an immense concourse of people. There were present on the occasion about 200 soldiers of the revolution, and 40 survivors of the battle. The monument was completed in 1842, its entire expense having been over \$150,000; and on June 17, 1843, it was dedicated, Daniel Webster being again the orator, and the president of the United States and his whole cabinet forming a part of the vast and ence

BUNPOOR, BUNPUR, or BENPUR, a fort and district in western Beloochistan. The fort is built of mud upon a large mound, apparently artificial, which the natives say was raised by an army of Ghebers. The soil is fertile, and the chief of the territory obtains from his subjects an annual revenue of about \$13,000, beside contributions of camels, sheep, wheat, &c. The military force is 300 cavalry and 2,500 infantry.

BUNSEN, CHRISTIAN KARL JOSIAS, chev-

alier, a German statesman, philosopher, and theologian, born Aug. 25, 1791, at Corbach, ancient capital of the German principality of Waldeck. He began his studies at the university of Marburg, and continued them from 1809 to 1813 at Göttingen under the celebrated Heyne. In 1811 he was made a teacher at a gymnasium in Göttingen. He now gained an academical prize by a disquisition on the Athenian laws of descent, published in 1813 at Göttingen. After resigning his place, Bunsen went to Holland and to Copenhagen to study the Frison, Scandinavian, and Icelandic languages. In 1815 he went to Berlin and became acquainted with Niebuhr, who henceforth exercised a powerful influence on Bunsen's scientific and political career. In 1816 he went to Paris and studied the oriental languages under Sylvestre de Sacy. Then he accepted the office of tutor to a young American travelling in Europe; but after waiting for a long time the arrival of his pupil at Florence, Bunsen went to Rome, where he married the daughter of a clergyman of the English church, and renewed his relations with Niebuhr, then Prussian minister there. Bunsen became Niebuhr's private secretary, which ren-dered him a sharer in the latter's literary labors; and in 1818 he became secretary of the legation. From this time his influence began to be felt alike in the scientific and literary world, and in the political affairs of his time. The late king of Prussia visited Rome in 1824, was pleased with the ardent but enlightened Protestant fervor of the secretary, and to this are ascribed several reforms in the state church of Prussia, which were decreed by the king dur-

ing his sojourn in the centre of the Roman world. When, in 1824, Niebuhr resigned his diplomatic position, Bunsen was made chargé d'affaires, and in 1827 minister of Prussia near the holy see. When the European powers sought to bring the affairs of Rome into order, Bunsen elaborated for the conferences the socalled memorandum del Maggio. He had obtained from Pope Leo XII. the celebrated brief regulating mixed marriages; but when Gregory XVI. succeeded Leo, a different view of the subject was taken at the Vatican; and then began in Germany, Poland, and all semi-Catholic and semi-Protestant countries, a series of dissensions between the state and the clergy, a contest which ended in the imprisonment of several bishops. Bunsen, being unsuccessful in his efforts to change the opinion of the pope, gave up his diplomatic position in Rome in 1837, and in 1838 became Prussian minister to the Swiss federation. In 1841 he was sent to England to take measures for the erection of a Protestant bishopric in Jerusalem, and soon after was made ambassador at the court of St. James. From England he several times visited Berlin; and in 1844, at the request of the king of Prussia, presented several memoirs and projects concerning the introduction into Prussia of a representative form of government, modelled as far as possible on the English standard. After the outbreak in 1848 Bunsen strongly favored the cause of Schleswig-Holstein against Denmark, and published a pamphlet in English, under the title, "Memoir on the Con-stitutional Rights of the Duchies of Schleswig and Holstein, presented to Viscount Palmerston April 8, 1648." His convictions, and the influence of his name, were on the side of the efforts made by the diet in Frankfort for the union of Germany under the king of Prussia, as emperor, and he supported this movement in several pamphlets. In 1849, in the name of Prussia, he participated in the conferences at London, and protested in 1850 against the decisions of the London protocol, which in thename of England, France, Austria, and Russia, settled the question of Schleswig, as he contended, contrary to the interests of Germany. At the beginning of the eastern war, Bunsen's sympathies were with the western allies, contrary to the will and opinion of the cabinet which he represented at London. This fact, and his opposition to the pietistic turn of the Prussian court and government, weakened the favor which for more than 20 years he had enjoyed with the king of Prussia. Toward 1853 he fell into disgrace, resigned his diplomatic functions, and retired to an active and studious private life. He established himself in the city of Heidelberg, whose university, for centuries the stronghold of Protestantism, was at the beginning of 1848 the focus of moderate liberal ideas. Bunsen holds there the position of a leader and champion of the freedom of the Christian church; opposing sternly all limitations of religious liberty, wheth-

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er exercised by Roman or Lutheran, I sacerdotal or civil powers. The most rehis publications of this character is e "Signs of the Times" (Leipsic, 1855-56, 2 which was followed by "God in Histo 1857. During this period he refused the of the citizens of Magdeburg to el to the Prussian chamber of deputies. sen's literary activity has been display various intellectual fields. During his res in Rome, in conjunction with Niebuhr, he ied Roman antiquities, and made various l cal researches upon the philosophy of las and religion, and their influence in the 1 history. He united the study of Plato losophy with Biblical and liturgical studi with researches in the history of Ch In 1826, under Champollion, who was Rome, he studied the Egyptian hier As the result of these labors we have a work, "Egypt's Place in Universal 1 (Hamburg and Gotha, 1845-'57, be a book divided into 5 parts, each or ing a distinct whole. Most of his otl lications bear on theological and p questions. Among them "Hippolytus: Times, or the Life and the Teaching of t man Church under the Emperors C Alexander Severus" (Leipsic, 1855, 2 v considered one of the most eminent prou of the present epoch in the field of the literature. From the press of Brockh Leipsic, appeared in the early part of first semi-volume of his "Complete Bild for the Christian Community" (Vollet for the Christian Community" (Vollet Bibelwerk für die Gemeinde). This hensive work, which has engaged Bunsen's attention for many years, brought out in 8 great divisions, the vision in 4, the 2d in 8 volumes, and division in 1, altogether in 8 volumes. will be issued at the rate of 4 semi-vo year, so as to complete the entire pub in 4 years, from 1858 to 1862. The 1st c will contain the translation and exposition Bible, viz.: the Law, the Prophets, and books of the Old Testament, and the b the New Testament, with copious expli notes accompanying the translated text. division will be a continuation and complethe first, under the title of "Bible Testorically arranged and explained." The vision, under the titles, "Bible History "Everlasting Kingdom of God," "Life of &c., will present a consideration of the events and personages of the old a covenants. The author states that t lation will aim at presenting a close a proved rendering of the original text, producing a work which shall not only useful to theologians and scholars, but people at large.

BUNTING, a name given to several b the order passeres, tribe conirostres, famil gillidæ, and sub-family emberizinæ; cha ized by an acute conical bill, with a

merly straight culmen, and with the lateral marin sinuated; the interior of the upper mandible with a palatic knob; the wings moderate and smewhat pointed; tarsi about as long as the middle toe, and scaled; hind toe robust and larger than the inner; claws slender and gencally curved. Among the genera are cuspica (Pr. Bonap.), of which a well-known species is the black-throated bunting (E. Americana, Gmel.), with the fore part of the head greenish olive, hind head, neck, and cheeks dark ash-gray; mek over eye and lower mandible, lower neck, and middle of the breast yellow; chin white, threat black, sides gray, abdomen white, and have wing coverts bright chestnut; length 61 inche; female without the black on the throat. This kird arrives in the New England states from the middle of May, and returns erly in September, spending the winter beyond imits of the United States; it consumes exerpillars, insects, and immense numbers of maker-worms early in the summer; it also eats make of various grasses. The nest is made on the ground, and the eggs are 5, white, speckled with black. Birds of this genus are found also h Asia, Europe, and South America; they frequent bushes and open cultivated fields, saking their food on the ground; there are short 12 species described. The genus emberies (Linn.), of which familiar species are E. hertslana, and E. miliaria, contains about 30 species, scattered over the old and new world, specially the former; on the approach of winterthey collect in flocks, in which they remain will spring; their habits are the same as those of the preceding genus. The genus plectrophanes (Meyer), contains 4 species, among which are the mow-bunting (P. nivalis, Linn.), and the Lap-land lark-bunting (P. Lapponicus, Linn.), re-markable for their long hind toe, and very long and nearly straight claw. In winter they live in temperate Europe and North America, going to the far north in spring to breed; they associste in flocks in open mountainous districts, running quickly on the ground in search of such, Alpine fruits, and insects; the nest is wide in fiasures of rocks or on grassy hillocks. Other fringillidæ, as many species of sparrows inches, are in various localities called bunt-

WINTING, JABEZ, D.D., an English minister of the Wesleyan Methodist connection, but at Monyash, Derbyshire, in 1778, died in London, June 16, 1858. Both his parents were members of the Wesleyan connection, and removed to Manchester when he was a child. While in the grammar-school there he attracted the attention of Dr. Percival, who employed him as his amanuensis, and at his death made him one of his executors. While yet in his youth he became a member of the Wesleyan church; entered the travelling connection in the year 1799, and joined the conference after the death of Mr. Wesley, and was appointed to Oldham circuit. After travelling fours he came to the notice of Dr. Coke, who

selected him for the missionary work, designing to have him sent to Gibraltar. For some cause or other this design was not carried out, and he was sent to London, where he labored with much success and gained great popularity as a pulpit and platform orator. After remaining 2 years in London he was removed to Manchester, where he distinguished himself as an advocate of ecclesiastical order and discipline in a controversy with some disaffected Methodists. In this controversy he gave such evidence of a knowledge of the polity of Wesleyan Methodism as excited the admiration of the people, and secured for him the favor of the entire body to which he belonged. He was 4 times president of the Methodist conference; officiated during 17 years as missionary secretary; during 3 years as editor; since 1835, when the theological school was established, as president of that institution, and was looked upon as the acknowledged leader of the Methodists, superintending the interests of the body at home and abroad, while, at the same time, his influence was felt in other evangelical denominations, and also in the political world, statesmen frequently resorting to him for advice. Although his sphere of activity was so great, he derived only the ordinary emoluments of a Methodist minister, namely, a yearly salary of £150, with house-rent and taxes. During all the distractions connected with the secessions that have taken place in the Wesleyan body, Dr. Bunting remained a firm, unwavering adherent and advocate of the doctrines and discipline of the church as they came from the hands of John Wesley, and to his influence and indefatigable zeal, are to be ascribed, in a large degree, the permanency and prosperity of the Wesleyan connection.

BUNTZLAU, or Bunzlau, a town of Prussian Silesia, on the Bober. In the market place stands a monument to the Russian general Kutusoff, who died here in 1813. The town also contains an orphan asylum, schools, and several factories. Buntzlau chinaware is much valued in Germany. Pop. about 6,700. The poets Opitz and Tscherning were born here.

BUNWUT, an island in the bay of Illanon, Malay archipelago, about 60 miles from Mindanao. It is surrounded by a chain of islets, coral banks, and dangerous reefs, except at one point on the E. side, where good anchorage can be obtained. It is 9 miles long, and 4½ broad. This island is in possession of a piratical chief of Selangan, and is resorted to as a rendezvous of the Illanon pirate fleets.

BUNYAN, John, the author of "Pilgrim's Progress," born at Elstow, near Bedford, in 1628, died Aug. 81, 1688. His father was a tinker, and brought up his son to the same business, giving him a very imperfect education. It has been usual with the biographers of Bunyan to attribute to him an idle, vagrant, and dissolute youth, but this in a great degree is owing to Bunyan's own strain of self-condemnation. In after years, when he was made the subject of

obloquy and accused of the very vices which he had laid to his own charge, he indignantly defended himself and denied the truth of the allegations. There is no good reason to believe that his early manhood was stained with gross impurity, and a careful reading of his curious autobiography, "Grace abounding to the Chief of Sinners," will convince the student that he only adopts the extravagant style of the Puritans. He acknowledges a habit of profane swearing, but says that he was cured of this by a single well-timed rebuke. He appears to have been very fund of playing at tip-cat, and dancing on the village green, as well as ringing the church bells. All these amusements he in time came to look upon as sinful, and bemoaned as if he had committed irreparable evil. At the age of 17 he enlisted in the parliamentary army, but all that is known of this part of his career is, that he was present at the siege of Leicester, and escaped death by permitting a fellow-soldier to take his place as a sentinel, and thereby lose his life. Bunyan always regarded this as a direct interposition of Providence. His military experience was eventually reproduced in his writings, especially in his "Holy War," written after the completion of the "Pilgrim's Progress." Soon after the campaign of 1645 he returned home and married one as poor as himself. He now partook of that religious enthusiasm which was spreading all over the land; and he became distressed by doubts regarding the safety of his soul, and suffered all the horrors experienced by those who imagine themselves forever shut out from the mercy of God, and given up to the powers of hell. During the year which he assigns as the period of his greatest terrors, his sufferings were extreme. Now he would imagine that only the Jews could be saved, and again that the Turks and not the Christians were true believers. At last his mind became more quiet, his soul was gradually comforted, and he began to preach to the poor people of Bedford. He had been 5 years engaged in this occupation, when the restoration placed power in the hands of the cavaliers, and in common with many he was imprisoned. In Bedford gaol, the place of his incarceration, he remained upward of 12 years. His faith was put to the trial many times, as he was constantly told that if he would give up preaching he should at once be set at liberty, yet he always answered: "If you let me go to-day, I will preach again to-morrow." Nothing could shake his resolution, neither sneers, nor threats, nor his own health, nor the condition of his family suffering from poverty. Not being able to work at his old trade of a tinker, he made tagged laces to support himself, wife, and children, one of whom had been blind from her birth. These laces were furnished to peddlers, and while employed in this mechanical way, he neglected no opportunity of preaching to the prisoners. He had a most intimate knowledge of the Bible, which, with Fox's "Book of Martyrs," was a constant companion, and such hours as he could

devote to composition, were now spent in 1 ious writing, many of his papers being at the Quakers, whom he cordially disliked. misery of his family, and his own of at last prevailed with those in power; the of his confinement was relaxed, and in 16 was freed altogether. In 1678 he publishe 1st part of his "Pilgrim's Progress," only perfect copy of which is known. To the rector of the press he is indebted for a lit provement in the syntax and spelling, busingle scene or line of that immortal worl suggested to him by others. When he ha tirely completed the 1st part, he showed some of his friends, and was generally am by their criticisms, they being divided in ment whether it should appear or not; b finally wisely decided to publish it. At reached but a small class of the commun. though hailed by them with delight; but same year a 2d edition was published with success. From 10 to 15 editions were issued ing the author's life, and he had the of knowing that his work was read by hundreds of thousands in England, de among the Protestants of Holland, the h nots of France, and the settlers of New I In 1684 he published the 2d part of ... soon afterward his "Holy War," now little He continued to preach without further z tation, and every year made a journey to don, where he drew together at all tin large concourse to listen to his sermons. summer of 1688 he took cold from riding heavy rain after a benevolent visit to reci an angry father to his son. He died lodgings in Snowhill, and was buried i grave-yard of Bunhill-fields, London. great fame rests upon his "Pilgrim's Prog Of this the editions have been almost merable, as well as its imitations. Yet fas ing as it is to the young and old, learned as learned alike, for full 100 years it was cher by the lowly and obscure before its merits appreciated by the great. No estimate c formed of the good it has accomplished, number of pilgrims its examples have ch and sustained in their journey through The story of Christian, his despair and str his escape from his neighbors Pliable au stinate, his contempt for the counsels c Worldly Wiseman, who dwelt in the to Carnal Policy and went to church in Mo his meetings at the wicket-gate and the Beautiful, his dreadful fight with Apollyc passage through the valley of the Shad Death, and, in truth, the whole of his t phant pilgrimage, will ever charm the: from one gifted with the world-wide gen Bacon, to the humblest rustic, "never he half a mile from home."-ROBERT, the last lineal descendant of John Bunyan, born in died at Lincolin, England, Nov. 27, 1855. BUOL-SCHAUENSTEIN, KARL FERDE

BUOL-SCHAUENSTEIN, KARL FERDE count, an Austrian statesman, born Ma 1797, has been successively ambassador at: gri, Turin, and in 1848, for a short time, at St.

Atomhurg. Subsequently he was selected,
and of to sid Prince Schwarz.

endorf, to aid Prince Schwarzwo conferences at Olmütz, and at a mand he attended those of Dresden. In he officiated as ambassador in London, warm he succeeded in smoothing the difficulties which had arisen between the English and Antrian governments, on the subject of Lom-lardy. After the death of Prince Schwarzenher he was appointed, April 11, 1852, to sucs president of the Austrian cabinet, minister of foreign affairs; positions continues to hold. In 1855 he pre-" Wienna over the conferences of Rusallied powers, and in 1856 attended of Paris, where he signed, on behalf , me general treaty of peace of March a April 15, a separate treaty concernsione. In the complications of Ausswitzerland and Sardinia, and on er occasions, Count Buol has exhibited we sense and moderation.

NALENTI, BERNARDO, an Italian artist,
Florence in 1536, died in 1608. He
several hydraulic machines, and the
most of hand-grenades has also been atto him. He improved the scenic decf the theatres, and invented machines
them.

DUVINIOTTI, FILIPPO, descended from m Italian family, born in Piss, Nov. 11, 1761, and in Paris, Sept. 15, 1837. He received an exellent education under the auspices of the grad dake Leopold, but forfeiting the friendip of that prince, on account of his sympathies with the French revolutionists, he resorted to Conica, where he commenced a journal of so infammatory a character, that he became inwired in difficulties with the government. where he was invited to draw up a liberal consistion for the people, he eventually repaired w Paris to urge the desire of the people of the Conican island of St. Pierre, for annexation to France. French citizenship was conferred upon in; he was employed in important missions in Comics and Oneglia, and became an ardent prime of the Terrorists. Having been de-time for some time in prison after the fall of letteriere, he founded the Pantheon associa-tion, and when this was dissolved by the govreman, he joined the conspiracy of Babeuf, was sentent to transportation, but was finally permitted to retire to Geneva, and afterward went to Branck, where he published, in 1828, his Compiration de Babeuf. Returning to Paris after the revolution of 1880, he spent the rest of

bis his in poverty and obscurity.

BUONAROTTI, MICHEL ANGELO, an Italian post, sephew to the great Michel Angelo, but at Florence in 1568, died Jan. 11, 1846. He was received into the academy disastive town at the age of 17. He was the ward admitted into the academy della Green, and took part in editing its great dic-

tionary. He edited the poems of his uncle, and composed 2 comedies, La Fiera and La Tancia, the former of which is divided into 5 days, with 5 acts to each day.

BUONINSEGNA, DUOGIO DI, an old Italian painter who flourished at Sienna from about 1282 to 1315. His principal work was an altar-piece

for the cathedral of Sienna.

BUONONCINI, GIOVANNI BATTISTA, an Italian composer, born in 1658, at Modena, died during the 18th century. In 1697 he went to Vienna, and soon after to Berlin, where his opera Polifemo had great success. After living a while at Rome, he went, in 1720, to London, and became there one of the most powerful rivals of Handel. Every thing in England, at that time, was made to bear upon party politics, and Buononcini became the favorite of the whigs, while Handel was supported by the tories. But upon a trial of skill, in an opera of their joint composition, the talent and taste of Buononcini proved an unequal match for the genius of his rival.

BUOYS, floating objects formed of cork, wood, boiler plate iron, &c., usually hollow like a cask, and strongly hooped, which are moored on the water so as to rise and fall with the tide. They are either to mark a shoal, and so to enable vessels to navigate a channel in safety, or in rivers and harbors they are laid down for the purpose of enabling vessels to make fast, instead of letting go their anchors. Buoys are used also to point out the place at which an anchor or a cable has been let go near the shore.—Bell buoys, recently introduced, are floating platforms of plate iron, with a mast supporting a bell, and a rail around the platform to give security to persons taking refuge upon them.

BUPALUS, an ancient Greek sculptor, of a family long celebrated as statuaries, flourished at Chios about 500 B. C. He and his brother Athenis are best known for their satirical conflict with the poet Hipponax. Augustus adorned many of the Roman temples with works of the 2 brothers, who used the pure white marble of Paros. Pausanias represents Bupalus as being an elegant architect as well as

a sculptor

BUPHONIA (Gr. βουφονος, ox-killer), an ancient Athenian festival, celebrated every year on the 14th of Scirophorion, on the Acropolis, in honor of Zeus. Barley and wheat were placed on the altar, and the ox destined for the sacrifice was permitted to go and eat the seeds, when a priest armed with an axe sprang forward and slew the ox, and then secreted himself. The other priests, as if not knowing the author of the deed, made inquiry, and failing to ascertain any thing, for lack of a better victim arraigned the axe, found it guilty, and condemned it. The Buphonia were also called Diipolia.

BURBAGE, RIGHARD, an associate of Shakespeare, and actor of his tragic parts, died March, 1620. Of his abilities there is little notice, except from one or two contemporary authors by whom his name is incidentally mentioned. A contemporary epitaph, in which he is much praised, is extant. In 1608 he was one of the actors to whom, in company with William Shakespeare, a license was granted by James I.

BURBECK, Henry, an officer in the American revolution, born in Boston, June 8, 1754, died at New London, Conn., Oct. 2, 1848. He joined the American army at the breaking out of the war, and received a commission as lieutenant. In 1777 he was made captain in a regiment of artillery in the Massachusetts line. He was with the army at Cambridge, was employed near New York till the British evacuated that city, was in the army of Pennsylvania under Washington, and shared in the conflicts of Brandywine and Germantown, in the winter's sufferings at Valley Forge, in the perilous retreat through New Jersey, and in the battle of Monmouth. He retired at the close of the war with the brevet rank of major. Subsequently he engaged under Gen. Wayne in the Indian wars on the western frontier, and for 4 years held command of Fort Mackinaw. In the war of 1812 with Great Britain, he held the rank of brevet brigadier-general.

BURCKHARDT, Johann Karl, a German astronomer, born at Leipsic, April 30, 1778, died in Paris, June 21, 1825. He was educated in practical astronomy under Zach at Gotha, by whom he was recommended in 1797 to Lalande at Paris, where he was appointed in 1799 adjunct professor in the bureau of longitudes, and after the death of Lalande, in 1807, became director of the observatory of the military school. He distinguished himself by his calculations of the orbits of cometa, translated into German the first 2 volumes of the Mécanique célette of Laplace, published many astronomical tables, and wrote valuable memoirs for the

academy of sciences.

BURCKHARDT, Jonann Ludwig, a Swiss traveller, born at Lausanne, Nov. 24, 1784, died in Cairo, Oct. 17, 1817. He was descended from a patrician family of Basel, and after studying at Leipsic and Göttingen, went to England in July, 1806, where he formed the acquaintance of Sir Joseph Banks, and embraced the plan which the latter suggested of exploring the interior of Africa. He passed the next 2 or 3 years in gaining a knowledge of the Arabic language, and on March 2, 1809, sailed for the Mediterranean, arriving at Malta in April, and there assumed the disguise of a Mohammedan merchant. Thence he sailed for Syria, and on arriving on its coast joined a caravan and forthwith proceeded to Aleppo, where he made a protracted stay, engaged with his Arabic studies, and in gaining such a knowledge of the eastern character and customs, that afterward in times of trial and danger, when he was suspected of being a spy, he was enabled to pass not only as a true but as a learned Mussulman. In July, 1810, he left Aleppo on a journey to Palmyra, thence through the country of the Hauran to Damascus. He visited the famous ruins, but was pre-

vented from at once going to the H the treachery of the Arabs, althou mained 6 weeks in Damascus, and Lebanon, the territory of the D. Hermon, and other places in Syr in a fatiguing journey of 26 days c. obscure country of the Hauran, the n the Romans, finding many vestiges us cities and Greek inscriptions, some or dated as far back as the reign of Tra Marcus Aurelius. In Jan. 1811, he unu excursions into the desert toward the l and on one of these occasions v stripped to the skin, and failed in account any of the objects of his journey. In a again repaired to Damascus, made journey into the Hauran, transmitted count of his discoveries there to E on June 18 departed for the Deau . explored its eastern shores, visiting in celebrated in the Old Testament, and the ruins of the city of Petra, which a been visited by any modern European himself. Proceeding toward Akaba, he a small caravan, crossed the desert of and passing a short distance to the m Suez, journeyed on to Cairo. His first ment at Cairo was to draw up a detaileu : of his journey through Arabia Petræa; as he turned his attention to an exploration interior of Africa. Finding no opp made a journey into Nubia, visiti pal ruins of the Nile; he visited and de the majestic temple of Aboo Sambool, wh afterward opened by Belzoni. On Ma 1814, he joined at Esneh a caravan of al slave merchants, and after sufferi able trials and privations, he arri.... 26 at Suakin on the Red sea, where passage for Jiddah, landing there on J His funds becoming exhausted, he de to make a direct application to then at Jayef, to learn whether he we a bill upon Burckhardt's correspondent a and order his treasurer at Jiddah to pay it application was made through the pash menian physician, and before the res be known to Burckhardt, Mehemet A dentally hearing of his condition, despa messenger to him with a sum of money. r ing him to repair at Tayef. Burckh obeyed the command, and on bei to Mehemet Ali, Burckhardt clear., pe that he was regarded by him as a spy English government, although he was ceived by the pasha, and eventually of his permission to visit Mecca during the of the month of Ramadan. Accordi Sept. 7, he departed with other pi holy city, and arrived at Mecca a unji ward. Thence he went to Jiddah t plete the purchase of his travelling equip and returned to Mecca about the mic October. After witnessing the gorgeo geant and the religious services of the g grimage of Aratat, he visited

incly escaping from the plague which was noing at Yembo, he finally returned to Cairo, June 24, 1815. He then undertook a journey iso lower Egypt, and afterward wrote the journal of his Nubian and Arabian travels. In 1816, the plague again broke out at Cairo, and to moid it he made a journey to Mount Sinai. He was about to join a caravan for Fezzan, when he ded of dysentery. He bequeathed his collection of 300 volumes of oriental MSS, to the library of the university of Cambridge, and his invels were published after his death in England and Germany.

tavels were published after his death in Enghard and Germany. dDEN, Henry, an inventor and me-, born at Dunblane, Scotland, April 20, His father was a small farmer, and it while a youth engaged on the farm that gave evidence of inventive genius, by ug with his own hands labor-saving macamery from the roughest materials, with but few tools and no models. His first marked secess was in constructing a thrashing machine. He afterward engaged in erecting grist mills and making various farm implements. During this period he attended the school of William Hawley, an accomplished arithmetician; and afterward, having resolved to try his fortunes in America as a machinist and inventor, he went to Edinburgh and entered upon a course of studies, embracing mathematics, engineering, and drawing. Arriving in this country in 1819, he devoted himself to the improvement of agricultural implements. His first effort was in making an improved plough, which took the first premium at 8 county fairs. In 1820 he invented the first cultivator in the country. In 1823 he was appointed agent of the Troy iron and milfactory. In 1825 he received a patent for his medine for making the wrought spike. In 1884 be obtained a patent for an improvement in his wike machine, and in 1835 for a machine for In 1840 he patented a making horse-shoes. medine for making the hook-headed spike, an which is used on every railroad in the U.S. In the same year he patented a self-sting machine for reducing puddlers' balls into blooms. In 1843 he patented an improvement in his horse-shoe machinery. In 1849 he tented a self acting machine for rolling pudden' balls into bars. In June, 1857, he patentd a new machine for making horse-shoes. In may be considered his greatest triumph in mechanics; it is self-acting, and produces from the iron bars 60 shoes per minute. He has obtained patents for this machine from every Mr. B.'s prominent government of Europe. responsion waterwheel is another of his inventions. In 1833 he built a steamboat 800 feet heg, with paddle wheels 80 feet diameter; from sampe it was called the "cigar boat." It was be through the mismanagement of the pilot. In 1836 Mr. B. warmly advocated the construction daline of ocean steamers of 15,000 tons burden. In 1845, when the steamer Great Britain rippled by breaking one of her screw blades, Mr. B. went to England for the especial

purpose of inducing her owners to adopt the sidewheel, but was unsuccessful. His views in regard to ocean navigation becoming known to some gentlemen in Glasgow, they, with his permission, issued a prospectus for "Burden's Atlantic Steam Ferry Company," in which was advocated the establishment of a line of steamers of enormous size, thus anticipating by several years the "Leviathan" of Mr. Brunel.

BURDER, REV. GEORGE, an English clergyman of the Independent church, and one of the founders of the London missionary society, born June 5, 1752, died May 29, 1832. In 1773 he was admitted a student in the royal academy of arts. He began then to preach occasionally, and at length determined to abandon artistic pursuits altogether. He was settled as pastor first at Lancaster, and in 1788 he removed to Coventry, where he resided during 20 years. In 1803 he became pastor of the church in Fetter lane, London, where he officiated during the remaining 29 years of his life. He was secretary of the London missionary society, and editor of its organ, the "Evangelical Magazine." He is now remembered principally by his "Village Sermons," which appeared in 6 volumes from the years "Tops to 1812. He also published volumes of "Cottage Sermons," "Sea Sermons," and "Sermons to the Aged," which were very widely circulated; and edited the "Pilgrim's Progress," and Henry's "Commentaries upon the Bible."

BURDETT, SIR FRANCIS, an English politician, born Jan. 25, 1770, died Jan. 23, 1844. He was educated at Westminster school and Oxford, and afterward passed some years on the continent, residing at Paris during the early part of the French revolution, and returning to England, in 1793, imbued with some of its principles, in which he was encouraged by his friend and instructor, John Horne Tooke. He married Sophia, youngest daughter of Thomas Coutts, the wealthy London banker, and sister to the marchioness of Bute and the countess of Guildford. In 1796 he became parliamentary representative of Boroughbridge, in Yorkshire, his colleague being Sir John Scott, afterward Lord Eldon. In parliament he avowed the most liberal opinions, denouncing the government as in-imical to the liberties of the people, and condemning the war with France. He strenuously advocated parliamentary reform, the liberty of the press, and inquiry into and exposure of the abuses in the Cold Bath Fields and other prisons. He was brought forward at the general election of 1802 as candidate on the popular interest for Middlesex, was elected after a long and close contest, had to vacate his seat, owing to some irregularity in the proceedings, stood a second contest in 1804, and was finally return-He continued strongly in opposition to the government until the accession of Fox and Lord Grenville in 1806, when he as strongly supported their policy, but at the same time lost his seat for Middlesex at the general election. In 1807 he was put forward as candidate for the city of Westminster while suffering from a

wound received in a duel with Mr. Paul (who was also wounded and also went to the poll), and was elected with Lord Cochrane. He continued to sit for Westminster for the next 80 years. In 1809 he made strong, not to say violent, speeches in the house of commons in advocacy of parliamentary reform. Early in 1810 he presented, and forcibly supported, a petition from his constituents in favor of the same measure. In Feb. of that year John Gale Jones, a popular declaimer at reform meetings in London, having impugned the conduct and motives of the house of commons, was committed to New-gate by that assembly. Immediately afterward Sir Francis Burdett addressed a letter to his own constituents, in which he denied the power of the house of commons to imprison delinquents, and condemned their treatment of Gale Jones. This letter was published in Cobbett's "Political Register" on March 24, 1810, and after a warm debate (April 6) the house of commons voted it to be "a libellous and scandalous paper," and the apprehension of the writer was ordered. Maintaining that the speaker's warrant was illegal, he barricaded his house and was besieged for 2 days, when the sergeant-at-arms, assisted by police and military, forcibly entered and conveved Sir Francis to the tower. Prior to this, riots had commenced in the neighborhood of his house, and the military had fired upon and wounded many of the people. On the return of the soldiers from escorting Sir Francis to the tower, the mob assailed them; the soldiers fired their carbines, and shot one man dead, beside wounding several others. Sir Francis remained in the tower, however, until the prorogation of parliament in June, 1810, when his imprisonment expired as a matter of course. afterward brought actions against the speaker for having ordered his arrest with forcible entry into his house, against the sergeant-at-arms for having executed the speaker's warrant, and against the lieutenant of the tower for holding him in custody, but was unsuccessful. In succeeding sessions he contended that taxation without representation was a fraud on the public. He also opposed the suspension of the habeas corpus act, and supported Catholic emancipation. In 1819 he was prosecuted by the attorney-general for a letter condemning the proceedings of the Lancashire magistrates and yeomanry at the "Manchester massacre," and in March, 1820, a Leicestershire jury declared this missive to be a seditious libel. His sentence was 8 months' imprisonment and a fine of £1,000. The bank note which he thus paid away is still preserved in the bank of England, with an inscription in Burdett's own writing that to save his life, which further imprisonment threatened to destroy, he submitted to be robbed. He supported the cause of Queen Caroline; brought in, and carried through the commons, a Catholic emancipation bill; supported chancery reform; opposed the corn laws; steadily adhered to Mr. Canning during his brief premiership, in 1827;

aided Peel and Wellingt D D olic relief bill of 1829; . 1 ed Lord Grey in the resorm our and to tion of slavery. Aristocratic by birth property, and connections, he became with Lord Melbourne for maintaining pact, expressed or implied, with Mr. nell, and even made a motion in Br club for Melbourne's expulsion. His minster constituents, after 80 years' 1 upon him, sent him a requisition to his seat in parliament. He complied became a candidate (though with an a change in his politics), and, between di Lord Melbourne and abiding popularity sonal grounds, was reelected, after a close He made a tour through the north of I in the course of that year (1887), avow cided tory opinions. At the next election returned as member for North Wiltshire he had large estates, and held that seat u death. At one period of his life Sir Burdett lent £1,000 to Mr. Cobbett, whi was never repaid, Cobbett declaring (in from Long Island in Nov. 1817) that p forbade his paying money to any Eng ject, as he had been badly used by the government.—In person Burdett was th almost invariably wore the costume (t and top boots) of an English fox hu best portrait of him was given by Hay "Passing of the Reform Bill." He was and earnest, rather than an eloquent and was fond of quotations from the Parliamentary reform was the great pur his life, and when that was granted, in 1 considered all beyond that as advan-revolution. Napoleon stated at St. Hele if he had carried out his intention of it England, it was his purpose, had he succe proclaim a republic in London and estal Francis Burdett, as a popular idol, at its On the death of Mrs. Coutts (duchess Albans), his daughter, Angela Geori April 25, 1814, inherited her assumed the name of her beneautor Miss Burdett Coutts, became equally guished for her wealth and the liberal

BURDON, WILLIAM, an English was philosophical subjects. His work, "Materials for Thinking," supplied Colt many of the materials of his "Lacon." published "Thoughts on Politics, Morali Literature." He died in 1818.

BURDWAN, a district of British In closed by the districts of Beerbhoom, Manager and Bancora; area, 2,224 sq. m 1,854,152. It is a rich, level country, ably watered by the Hadjee, Dummodah, B tee, &c., but subject to inundations. The is sultry but healthy. The lands are highly vated, and produce sugar, indigo, tobacton, rice, potatoes, betel, &c. Sugar extensively and skilfully carried on. circon are found in considerable quantity ported to Calcutta, but a large part o

modests, though bearing the name of Burdwan, really brought from the adjacent district of hencora. The other exports are hides, horns, taber, lac, and silk. The native landowners, or semindars, are usually very rich, and many diten reside at Calcutta, leaving the management of their estates to agents. The chief of these proprietors is the present titular rajah, a part of whose immense wealth has been devoted the advancement of education. A school in Burdwan, the extension of a branch of the cal college, and several scholarships in the college, owe their foundation to his lib-The great military route, denominated it trunk road from Calcutta to Benares не North-West Provinces, passes through which is also intersected by the ru railway from Calcutta to Rajamahal, y the branch railway from Burdwan to mines of Raneegunje. Burdwan was the E. I. company under the treaty with lossim in 1760. The cession was confirmy the emperor Shah Alum in 1765.—BURDcapital of this district, is situated on wank of the Dummodah, 74 miles N. W. TAR. a; pop. 54,000. It consists mainly ď s wded assemblage of wretched mud with no temples of much elegance, and wandsome buildings of any sort. The resiènce of the titular rajah is a collection of variex-colored houses surrounded by gardens, and markable for size and want of symmetry. The town contains English government and military schools, the residences of the European evil functionaries, and factories of silk and cotin the vicinity are indigo works, and an stificial pool surrounded by an ornamented perico, much resorted to by bathers.
BUREAU, a county of Illinois, N. W. of

BUREAU, a county of Illinois, N. W. of Minois river, which is here navigated by steambasta. The surface is but little elevated, and the soil is generally fertile. Timber is scarce. Small groves are scattered over the surface, but there are no forests of considerable magnitude. In 1850 the productions was 543,823 bushels of Indian corn, 171,402 of what, 119,048 of oats, 9,428 tons of hay, and 18,410 pounds of butter. There were 6 corn and four mills, 2 newspaper offices, 13 churches, mil. 13 pupils attending public schools. Area, 300 ap. m.; pop. in 1855, 19,518, an increase since 1850 of 10,677; capital, Princeton. The Chicago and Rock Island, and the Chicago, County.

BURET, EUGÈNE, a French writer, born at Inyse in 1811, died at Saint Leu Taverny in 1842. In 1840 he wrote a dissertation on pauperism, upon which a prize was conferred by the andeny, and subsequently published in England an important paper upon the misery of the laboring classes in France and England. He spent time in Algiers, and wrote a valuable volume upon that country.

BURETTE, a chemical instrument used for dividing a given quantity of any liquid into 100 or 1,000 parts.

BURG, JOHANN TOBIAS, a German astronomer, born at Vienna Dec. 24, 1766, died at Wiesena, near Klagenfurth, Nov. 25, 1884. He was for 3 years assistant in the observatory at Vienna, and afterward professor at Klagenfurth. In 1798 the French institute proposed an astronomical question, and required that its solution should be based upon at least 500 observations. Papers of great merit were presented by Bürg and by Alexis Bouvard, and the judges were at a loss between claims so nearly equal. The difficulty was settled by Napoleon, who contributed the amount of 8,000 francs for a second prize. The most important publications of Bürg were upon the subject of the lunar motions.

BURGDORF (Fr. Berthoud), a town of Switzerland, on the Emmen. It is the entrepot for the linen goods and cheeses of the Emmenthal. The castle which stands here was formerly a place of great strength. Pestalozzi resided from 1798 to 1804 in the chateau of Burgdorf, and converted it into an educational institution. In the vicinity are the baths of Sommerhaus. Pop. 8,700.

BURGER, FRIEDRICH, baron, Austrian governor of Lombardy, began life as a lawyer in Gratz, and having subsequently rendered signal services to the Lloyd's steamboat company of Trieste, he was sent in 1848 as delegate of that city to the Frankfort parliament. He soon relinquished his seat, and, returning to Austria, was appointed attorney-general at Trieste, and in 1850 governor of Styria. Successfully overcoming the prejudice attaching to him as a commoner, and adopting the policy of his friend Bach, the minister, he gave much satisfaction to the government, and was promoted in 1851 to the office of governor of Lombardy, the title of baron being conferred upon him April 22, 1854.

BURGER, JOHANN, a German writer upon rural economy, born Aug. 5, 1778, at Wolfsberg, in Carinthia, died Jan. 24, 1842. He introduced the culture of maize, and the use of improved agricultural implements, among which was the horse-hoe or cultivator. In 1808 he was appointed professor of agriculture in the lyceum at Klagenfurth, where he remained for 12 years. His most important work was a "Hand-book of Agriculture," published in 1820.

"Hand-book of Agriculture," published in 1820.
BURGER, Gottpried August, a German poet, born at Wollmerswende, near Halberstadt, Jan. 1, 1748, died in Gottingen, June 8, 1794.
Educated by his father, a Protestant minister, he evinced a remarkable talent for poetry. He left the school of Aschersleben in consequence of a severe punishment, incurred on account of a comic poem, and that of Halle because theological studies did not agree with his romantic disposition. He now chose the law, and went to Göttingen, where he found a circle of congenial spirits, the 2 counts of Stolberg, Voss, Holty,

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and others, with whom he formed the romantic Hainbund, and pursued the study of foreign poetry, both ancient and modern. There he wrote his popular ballad Lenore, which made him one of the favorites of the German nation. In 1772 he obtained a small office, and his grandfather now assisted him with money; but a part of this was embezzled, and a series of bitter embarrassments followed. Love and marriage, however, were the chief sources of grief and sufferings for the poet. Three times married, his conjugal life was destroyed by romantic passion, death, and divorce. Appointed at Göttingen as professor without salary, he labored by writing and translating to earn bread for his children, and even the consolations of poetry and fame were envenomed by the severe criticism of Schiller. Death, however, soon gave him rest. His poetical works are distinguished by genial force and melodious versification. They bear the stamp of an ardent and passionate, but honest soul. Schiller found them wanting in the ideal element. His Lenore, Lied tom brarem Manne, &c., rank among the best productions of their kind. Renowned authors of other countries, among others Walter Scott and the great Polish poet Mickiewicz, in his beautiful *Ucieczka*, have imitated him.—His first wife died in 1784. married then her sister Molly, who had been long before the object of his devoted love, and whom he celebrated with poetical enthusiasm in his writings. Molly died in 1786.-Elise BURGER (Maria Christine Elizabeth Hahn), the poet's third wife, born in Stuttgart, Nov. 19, 1769, died in Frankfort-on-the-Main, Nov. 24, 1833. Fascinated with Burger's genius, sho addressed a poem to him expressive of her love and admiration. They were married in 1790, but divorced 2 years afterward. Elise was as brilliant as she was sentimental, became in turns actress and improvisatrice, and wrote several dramas, a novel, and a volume of poetry.

BURGES, Tristam, an American statesman and orator, born in Rochester, Mass., Feb. 26, 1770, died in Providence, R. I., Oct. 13, 1853. His father, John Burges, entered the army as a lieutenant in 1775, with the intention of remaining in it during the war, but a severe illness, from which he never fully recovered, obliged him to resign in a few months. He was a farmer of moderate means, and in winter worked at his trade as a cooper. With a large family of 8 sons and 5 daughters, and at a period when schools, even in New England, were few, he was unable to give his children the advantages of an early education. Tristam, the youngest of the sons, was obliged to assist his father on the farm and in the cooper's shop. His eldest sister taught him to read, his father instructed him in writing and arithmetic, and from a friendly sea-captain he learned a little navigation. When 15 years old he attended a school in the vicinity for 6 weeks, and again the next year for 6 weeks more. This was all the instruction he received from others until he reached the age of 21. But he was a gre reader, perusing every book within his and devoting his leisure hours to component and other modes of self-improvement. A. he commenced the study of medicine, and tered the academy at Wrentham, Mass., to pre pare for college. A severe illness soon old him to leave this situation, but his determine tion to acquire a liberal education could not h repressed. He returned to the academy in autumn, and was again called home by death of his father. With rigid economy by teaching school a few months in the he was enabled to return to Wrentham spring of 1792. Here his fine oratori were first cultivated by a course of self-day pline not unlike that which the great master of Grecian eloquence employed to remedy a fect of nature. Although very fluent in versation, yet whenever he rose to speat the school exercises he would stammer and leitate to such a degree that his friends de it impossible for him ever to acquire the pur of oratory. But his energy and ambition w unconquerable. Near the village was a dense forest, within which he found a small cleared space, where, in solitude, he daily practised det lamation, carefully studying every tone am movement, until he had mastered his hesitation and acquired a natural and easy style of delivery. In Sept. 1793, he entered Rhode l college, now Brown university, at Providen and graduated 3 years later with the f honors of his class. He then taught a sch in Providence for more than a year, at the time pursuing the study of law, and was mitted to practise in 1799. The bar of Rho Island at that time was eminent for the el quence and legal ability of its members. It w a trying field for the young advocate, and fitting arena for the exercise of his powers. He soon won the distinction was legal acumen and commanding eloquence c fail to confer. His practice became ex The power of his oratory and the clearues his arguments were confessed by all who has him. In 1801 he married a daughter of come Arnold, an opulent merchant of Prodence. Mr. Burges soon became a leader the federal party, and in 1811 was elected to seat in the state legislature. In 1815 he w made chief justice of the state. The tri-of the republican party the next year: him from this important trust. He was afterward made professor of oratory and __la lettres in Brown university, which place filled with great success until his election representative in congress in 1825. He w his seat in December of that year, and almo immediately achieved a national reputation his splendid speech on the judiciary, which w pronounced by a veteran member of the hou to be "one of the greatest displays of eloquen over heard in this hall." In 1827 he was r elected without opposition. As chairman the committee on military pensions he made

t and submitted a bill proposing a system m mensions for the surviving soldiers of the on, and including also the widows of vao had died before this national debt of de was acknowledged. The woollen bill ed a series of debates upon the ed for 5 years. It was in the notracted controversy that Mr. usany of his most brilliant efforts of the American system; and it was the attacks made upon him by the s of protection that his luminous logie terrible sarcasm won for him an un-reputation as a perfect master of the of intellectual gladiatorship. There elv a question of any importance, that the 10 years of his congressional which Mr. Burges did not illustrate is convincing logic, his persuasive elo-s, or his blighting satire. In 1833 he was gum elected, for the 5th and last time, at a period when the doctrine of nullification was stating the country. His views on this subhet were fully and fearlessly expressed. It was the only point upon which he sustained the course of President Jackson. He opposed the compromise tariff bill of Mr. Clay, when it came down to the house, with a vehemence natural to his character. This opposition, doubtless, med his defeat in 1885, when the democratic publican party obtained the power in Rhode kind. He never again took part in public affin, but cultivated his farm near Providence will his death, which occurred in the 84th year of his age. In the style of his writings and seches Mr. Burges was ornate and peculiar. The richness of his classical and scriptural illustration was beyond that of his compeers. sectences of his logic was felt and admitted by is opponents. He is better remembered for is unequalled sarcasm, probably because that was sphere in which he had many competim, and wherein he was usually the victor. But the brilliancy of his scholarship, the bessty of his allusions, the exquisite ornamentation of his more finished efforts, these are points that give him a far higher title to remahrance than the deadly thrusts of a sain which he had no equal.—A memoir of linean Burges, with selections from his Puches and occasional writings, by Henry L. Boun, was published in 1835.
BURGESS, GEORGE, D. D., bishop of the

Problem Episcopal church in the state of Main, born in Providence, R. I., Oct. 31, 1809. After graduating at Brown university, and holding a tutorship in that college, he travelled in Brope, and studied for 2 years in the univarities of Gottingen, Bonn, and Berlin. we rector of Christ church in Hartford from 1884 to 1847, when he was consecrated bishop the diocese of Maine, and became, at the me time, rector of Christ church in Gardiner. The duties of both offices he has since fulfilled with great acceptance and ability. He has published 2 academic poems, a metrical version of a portion of the Psalms, "Pages from the Ecclesiastical History of New England," a curious treatise on death, entitled the "Last Enemy, Conquering and Conquered," a volume of "Sermons on the Christian life," and a valuable discourse delivered in 1854 before the Maine historical society. His style is remarkable for

its sterling and sober vigor.
BURGESS, THOMAS, bishop of Salisbury, Eng., born at Odiham, in Hampshire, Nov. 18, 1756, died in Salisbury, Feb. 19, 1837. His father carried on business as a grocer, and his brother removing to London, where he had an estab-lishment in the Strand, long the depot of "Burgess's sauce," amassed a large fortune there. Thomas Burgess was educated at Winchester, obtained a scholarship at Oxford at the age of 20, and became logic reader and fellow and tutor of his college. He obtained a prize for an "Essay on the Study of Antiquities," and published a "Treatise on the Origin and Formation of the Greek Language." Mr. Addington, who had been his fellow student at Winchester and Oxford, became prime minister in 1801, and appointed him bishop of St. David's in 1808. was translated to the much richer see of Salisbury in 1825, which he retained until his death. He was mainly instrumental in founding the royal society of literature, of which, in 1821, he became first president, an office which he resigned to Lord Dover in 1832. Among his Among his numerous works are editions of Burton's "Pentalogia" and Dawes's "Miscellanea Critica," "Considerations on the Abolition of Slavery," "First Principles of Christian Knowledge, and many others, theological, classical, and political

BURGH, James, a Scotch writer, born at Madderty, in Perthshire, in 1714, died Aug. 26, 1775. Proving unsuccessful in business, he went to London, where he was employed for one year as a corrector of the press. He then engaged as assistant in the grammar-school at Marlow; after which, in 1747, he opened a school on his own account at Newington, which he continued for 22 years. While at Marlow he published his "Britons' Remem-brancer," which passed through 4 large editions in less than 2 years. It was published anonymously, and its authorship was ascribed to some of the chief dignitaries of the church. He published numerous political pieces, and was, during many years, a frequent contributor to periodicals. His principal writings were "Thoughts on Education," "Political Disquisitions," the "Dignity of Human Nature," "Orito, or Essays," and a Utopian romance under the title of the "Settlement, Laws, Government, &c., of the Cessares, a people of South America."
BURGLARY (Law Lat. burgi latro, one who

breaks into a house or enclosed place; Sax. husbree, a house-breaker); in old English law called Hame-secken, as it still is in Scotland, the crime of breaking into a dwelling-house or building connected therewith, at night, with intent to commit a felony. Formerly it included

breaking into a church, because, as explained by Lord Coke, the church is domus mansionalis Dei; so, also, according to Spelman, it included the breaking the gates or walls of a town, which might in like manner have been said to be the mansion of the garrison or corpo-But, by the English statutes now in force, burglary is limited to the breaking into a dwelling-house; the breaking into a church is also made an offence, but not under this designation. To constitute burglary it is held: 1. That the house broken into must be a place of actual residence; yet, if it is habitually occupied, the fact that no one was in the house at the time of breaking into it will make no difference in the character of the offence. An outhouse, if immediately connected with the dwelling, is deemed a part thereof, so as to make the offence of entering it the same; and in England this rule has been extended to barns, stables, &c., though not under the same roof with the dwellinghouse, or contiguous, provided they are in a common enclosure, called curtilage. So also a room in a private house which the lodger occupies as his own independent of the control of the proprietor of the house, or a room in a college or inns of court, is in law deemed the mansion of the occupant, and the breaking into it would be the same as the breaking through an outer door. But in a hotel or boarding house, where the apartments are under the management of the proprietor of the house, and there is a common entrance to them, the whole constitute but one mansion. 2. There must be an actual breaking, as opening a door or window; for, if found open, the entering thereby would not be burg-lary. But the mere lifting the latch of a door, or the shoving up a window which has no fastening, would be burglarious—much more the picking of a lock or removing any fastening. The breaking of an inner door, when an entrance has been made through an open outer door or window, would, however, be burglary; so, also, knocking at a door, and upon its being opened, rushing in with felonious intent. 8. It must be in the night, not by day. The peculiar criminality of the offence is the supposed danger to life. The English rule is, that if there is daylight enough to distinguish a man's face, the entering of a house will not be burglary. This does not include moonlight, for the offence is not so much that it is done in the dark as at an hour when the inmates of the house would be unguarded. In the state of New York, burglary in the 1st degree is defined to be "the breaking into and entering in the night time the dwelling-house of another in which there shall be a human being, with intent to commit some crime." Breaking into a house in the day time, under circumstances that would at night have constituted burglary in the 1st degree, is declared to be a burglary in the 2d degree. So, also, the entering by an open door or window at night and breaking an inner door with intent to commit a crime. Breaking into an outbuilding not forming a part of a dwelling-house,

or into a shop, warehouse, &c., w steal, is burglary in the 8d degree. ment of burglary is various in t states—usually imprisonment in

for a term of years.

BURGOMASTER (Ger. Bürgermeister of the citizens), in German and Di h the chief executive municipal called mairs; in England, 1 synonymous with borough; ... holder of a tenement in a born BURGONET, the L or ridea. the crown-piece or curv of the s helmet of the man-atuDOD T heraldic crest of the kugus s family, or was royal, of his kingdom, was attached. which a panache of feathers was superadded. Hence burgonet used to signify the heraldic cress swell; a other times, the entire knightly case crested.

BURGOS, a Spanish city, and capital province of the same name, formerly th ital of Old Castile. Pop. in 1852, 15,92 origin is uncertain, probably not older th 7th or 8th century. It is an irrequity, in the form of an amphithen banks of the Arlanzon, over which were stone bridges. The environs the city has an ancient and pearance. In the upper part or a still shown the arch and mausoleum to the memory of Gonzalez and the The cathedral is a fine Gothic contains the tombs of many olu a kings. The town hall is also w tice. A court has existed here forming a branch of the chancellery of dolid. There are a university, a college. lic library, a theatre, a museum, a piscopal seminary. There are auemployed in making woollen goods, 1 = 0 × linen goods, 14 shops engaged in the me ture of saddles and bridles, 7 hat 1 14 flour mills, 8 chocolate mills, a factory, and a large paper mill factory in the suburb of Vega Gonzalez, Alonso III., En nando I., are on the I on walk. Burgos was in form for its great number of churcues and c but the church of San Ildefonso . a depot of artillery, San A Juan Bautista a prison; t Frex del Val, has been some to a com-the materials, and Trinidad and San I... and others, are pulled down. Burgos w scene of an engagement, March 10, which Soult defeated the Spaniards also besieged twice by Wellington, and c occasion suffered the horrors of an assau

BURGOS, FRANCISCO XAVIER DE, & & statesman and author, born at Motril, nada, Oct. 22, 1778. He studied first ter and then law, and under King Joseph parte, in 1810, was appointed

He fled to France in 1812, on the re-Ferdinand VII. to Spain, and devoted re to making a translation of Horace. ie was made agent to effect a governat Paris, and concluded the business banker Guebhard in a way to secure a fortune. He was recalled from Paris , and became in 1883 minister of the and afterward of finance; but was rem the ministry by the influence of e la Rosa. He was accused by Gen. maladministration in contracting the although a committee of investigation a him innocent of the charges, he yet withdrew from public life. He lived in I 1839, where he occupied himself with his yet unfinished "History of the Govt of Isabella II.," after which he return-ranada. He has published 3 comedies, a ms, and a variety of miscellaneous artiliterature, the arts, and commerce. GOYNE, John, an English general, born 730, died in London, June 4, 1792. An ate son of Lord Bingley, he entered the t an early age, and, while a subaltern, runaway match with a daughter of the url of Derby. In a short time the earl 1 his son-in-law into favor, settled £300 n him (beside leaving him a legacy of) at his death, in 1776), and used the rest to push him on in the army. veu in Portugal with much credit, as er-general, in 1762. He sat in parliarom 1761, for the borough of Midhurst. e contested the borough of Preston at of £10,000, and for excesses which, ais partisans committed, was prosl fined £1,000. In the letters of was severely dealt with, on account presumed political connection with the Grafton. In 1772, on his motion, parpointed a committee of inquiry on irs, and in the following year he accessfully, for a vote of censure on e. In 1775 he was appointed to a in America, where the war of inde-just commenced. He witness-of Bunker hill. In 1776 he to England, and had a long con-with George III. on colonial affairs. he was appointed to lead the army to penetrate from Canada into . States, in which the Americans nis way difficulties which he could At last, the Americans, under arnold, surrounded him, while he sed at Saratoga, and compelled him with the whole of his army. The surrender was indignantly received Returning thither on parole, in he was ill received. The king rehim. A court-martial which he ded, on the plea that, according s, a prisoner on parole could not be Ho published a narrative, which cleared of the prejudice against him, and **VOL. IV.—8**

ably vindicated himself in parliament, attributing the disasters in the war to Lord G. Germaine, the American secretary. He threw himself into the arms of the opposition, and a ministerial attempt was made to exclude him from the house of commons, on the pretence that as a prisoner of war he had no right to speak or vote, but the speaker decided in his favor. He then resigned all his appointments. At the close of the American war, when a change of ministry took place, he was restored to his rank in the army, appointed commanderin-chief in Ireland, and sworn in as privy councillor. Two years afterward he retired from professional life, devoting himself almost wholly to literature. In 1774 he had written a vaudeville, the "Maid of the Oaks," to be performed at Lord Derby's suburban seat (the Oaks), near Epsom. In Jan. 1780, he produced a comic opera, "The Lord of the Manor," taken from the French, and still a stock piece. In 1786 he wrote the comedy of "The Heiress," which is occasionally performed yet. These were his principal dramatic productions. He contributed 2 pieces to "The Rolliad." He was one of the house of commons managers for impeaching Warren Hastings, but died ere the trial was concluded, from an attack of the gout. His plays and poems were collected and published in 2 volumes in 1808.

BURGOYNE, SIR JOHN Fox, British general, born about 1782. He entered the army in Aug. 1798, as second lieutenant of engineers; served at Malta, in Egypt, in Sicily, and in Sweden, from 1800 to 1807; was with Sir John Moore in the peninsula in 1808, under Wellington from 1809 to 1814, and was present at the principal battles, and at all sieges; conducted those of Burgos and San Sebastian; and was twice wounded. In 1814-'15 he was engineer-in-chief of the attack on New Orleans, and was sent to Portugal in the same capacity in 1826. He was made colonel in 1830; appointed chairman of the board of public works in Ireland in the same year; created knight of the bath; made majorgeneral in 1838; appointed inspector-general of fortifications of England in 1845; sent to Ire-land as head of the famine-relief commissioners in 1847; placed at the head of the metropolitan commission of sewers (for the drainage of London) in 1841; made lieutenant-general in 1851; advanced as knight grand cross of the bath in 1852; sent to Turkey in 1854, to provide for the defence of Constantinople, and free passage through the Turkish waters; returning to England, he was despatched to the Crimea as chief of the engineering department against Sebastopol; was present at the battles of the Alma, Balaklava, and Inkermann. In 1855, in consideration of his long services and advanced age, he was re-called, Sir Harry Jones succeeding him, but at the pressing request of Lord Raglan, the commander-in-chief, remained 8 months longer with the army. In 1855 the sultan bestowed on him the order of the Medjidie, and he was created a baronet in 1856. The celebrated letter of the

duke of Wellington, showing how ill prepared England was for war and against invasion, was addressed in 1847 to Sir John Burgoyne, then inspector-general of fortifications.

BURGUETE, a town of Spain, in the valley of Roncesvalles, Navarre, memorable for the

defeat of a part of Charlemagne's army, under Roland, in 778. BURGUNDIANS, or BURGUNDII, the name of a primitive German race, a branch of the Goths, whose original territory lay between the Oder and the Vistula, from which they were driven out by the Gepids. They settled on the shores of the Rhine and Neckar, and in A. D. 407, joining the Suevi, Alani, and Vandals, who invaded the country, they formed part of an army of 80,000 men, which, under the command of King Gundicar, penetrated into Gaul, settling between the Aar and the Rhone, and setting up the Burgundian empire, which lasted till A. D. 534, when King Gondemar lost his life in the battle against the Franks, who took possession of Burgundy. One of Gondemar's predecessors, Gundebald, was the author of the Lex Gundebalda, and a subsequent Burgundian king, Sigismund, embraced Catholicism.
The Christian doctrine which first obtained among the Burgundians, and to which they became converts shortly after their arrival in Gaul, was that of the Arians. One of their kings, Gundicar, was the first who endeavored to stem the progress of Attila; but he, and his army of 10,000 men, became victims of their bravery, and died to the last man on the battle-The description of the brilliant career of this heroic race forms one of the most remark-

able passages of the Nibelungenlied.
BURGUNDY (Fr. Bourgogne), the name of 8 kingdoms varying somewhat in extent and locality, of a feudal duchy, and lastly of a French province. I. THE FIRST KINGDOM or Burgundy was founded about 418 by the Burgundians, a German nation, who, after leaving the country between the Oder and the Vistula, wandered through Germany, and finally settled in the S. E. of Gaul. These peaceful conquerors gradually extended their dominion all over the valleys of the Saone and the Rhone, their possessions being bounded N. by the Rhine, the Faucilles mountains, and a winding line falling in a S. E. direction to the Loire; E. by the Alps and the Reuss river; W. by the upper Loire, Ardèche, and lower Rhone; 8. by the Mediterranean sea. Consequently they included the provinces of France known afterward as Burgundy, Franche-Comté, Lyonnais, the N. E. part of Languedoc, Dauphiné, and Provence, with the western parts of Switzerland and Savoy. About the year 500, the Frankish king, Clovis, impelled by his wife Clotilla. Rurgundian princess desirons of Clotilda, a Burgundian princess, desirous of avenging her father's death, invaded Burgundy, and imposed a heavy tribute. Some 80 years later, the sons of Clovis conquered the kingdom, which, in 534, became a part of the Frankish empire. It, however, preserved its name and

national laws, and more than once had vingian kings of its own. II. CHAUTRAN TRANSJURANE BURGUNDY. The Fran The Fran minion over Burgundy had lasted 31 cm when the dismemberment of the Carlo empire occurred, and Burgundy was the first to assert its independence. In number of bishops and noblemen assemb that purpose, and conferred the crown up count of Vienna, Boso, a mild and prince, brother-in-law of Charles the France. The new king was crowned as taille by the archbishop of Lyons, and 1 dom, from its situation in respect to F called Cisjurane, and sometimes Lower, dy, consisting of western Franche-Comte, ern Savoy, Dauphiné, and Provence, with of Lyonnais. A little later, Count Rude Upper Burgundy founded a 2d kingdom o gundy, the Transjurane, formed of v Switzerland to the Reuss, eastern Fr Comté, and northern Savoy. The 2 kir were united in 930, but not integrally, the name of the kingdom of Arles, which tinued for about a century. Meanwhikings of Arles or Provence, as they v called, being unable on account of them ness to contend successfully against the ing power of their nobles, were obl knowledge the supremacy of the (perors. Consequently, on the death of a III., in 1032, the emperor Conrad II. paramount, took possession of the kir that the S. E. part of France became c provinces of the German empire. It governed by imperial vicars; but in ning of the 14th century, the various :-of which it consisted separated; s Swiss cantons, asserting their others acknowledging the power on a feudal lords, but most of them going back French kings. III. DUCHY OF BI ducal house. While these kingdo ing through these revolutions, the ... old Burgundy had remained united to and formed one of its great feudal pre We find, in the 10th century, the Burgundy belonging to Henry, brother . Capet, the first king of the 8d dynasty, a tle later, to the 2d son of Robert the I France. This prince, who died in 1075, head of the first ducal house of Bu which lasted till 1861. His successor number, were among the 12 peers of and rivalled the most powerful pri their times. They increased their f heritance, especially by the anne: the county of Burgundy or Francis-one of the provinces dismembered fr kingdom of Arles, and were beside, the 13th and 14th centuries, possesso kingdom and 2 principalities in the They proved singularly constant in their ty to the French kings. Several of th gaged in crusades, especially Hugues his grandson Hugues IV., each of wl

s Holy Land. The latter accompa-IX. in his expedition to Egypt, parin his captivity, and was liberated

in his captivity, and was liberated By a treaty with Baldwin II., em-Constantinople, he became himself Balonica, which title remained for his house. Eudes IV., the last but e family, beside that kingdom had rincipalities of Achaia and Morea.—
UOAL HOUSE. On the death of Philip a, the last of the preceding family, of Burgundy reverted for a short e crown of France. King John, beus of rewarding his 3d son, Philip, the Bold, who had fought gallantly in the battle of Poitiers, resolved to is rich inheritance upon him. John's ras honorably executed by his son sor, Charles V. of France; and on 364, Philip received the investiture chy. He soon married Margaret of who, on the death of her father, im the countries of Flanders and side several other rich possessions. Once gave evidence of his power and contributing largely to the organiza-

army which, in 1396, was sent to Hungarians against Sultan Bajazet.

of Nevers, heir of Burgundy, a m, was appointed to command the the third that the teal chief of which was the Enguerrand VII., lord of Coucy. Was destroyed by the Turks at Nicopg John being taken prisoner, and his to pay very large sums for his ranch circumstance obliged him to tax to heavily. Philip the Bold had also the government of France during the und afterward insanity of his nephew, I. By his prudence the calamities ar were for a time avoided; but the want of money to meet his extravamiditures, both private and public,

frequently into measures not connational welfare. On his death, the was empty, so that his sons had to late to defray the expenses of his He died in 1404, generally regretted, count of the good he had done, but very one foresaw what commotions rtunes were to be the consequences th.—John the Fearless, his succesimmediate measures to procure for

same influence as his father had in the government of France, but was y the queen, Isabella of Bavaria, and of Orleans, brother of the king. In civil contest, John hired assassina his rival, and the duke of Orleans in the very midst of Paris. Such, were the power of the duke and the the times, that he would probably

d a justification of his conduct wurt, had he not been obliged to reterritories to quell an insurrection izens of Liége; the partisans of Or-

leans took advantage of his absence to call for justice, and being joined by all the enemies of Burgundy, they soon formed a very powerful faction. But John held out successfully against them; therefore they concluded that, to get rid of him, there was no other means than that he himself had resorted to. A plot was devised for his assassination. Ambassadors were sent, in 1419, to invite him to an interview with the dauphin on the bridge of Montereau, in order that they might together concert measures for the defence of the kingdom. He went to the appointed place with a very scanty train, armed only with such weapons as gentlemen of the period usually wore on visits of ceremony. He had been scarcely introduced to the dauphin, when some high words were exchanged, upon which the partisans of young Charles, who were all Orleanists or Armagnacs, raised the cry of treason, and immediately struck the defenceless John down by axes and swords, his companions being also mercilessly butchered.—PHILIP THE GOOD, his son and successor, was eager to avenge his murder, and he unhesitatingly entered into alliance with Henry V. of England, and recognized him as the legitimate heir to the crown of France, on condition that Charles VI. should not be deprived of his regal dignity during the remain-der of his unhappy existence. The war between the English and French now became identified with the feud between the Burgundians and Armagnacs, and was marked on both sides by shocking atrocities. For 16 years Philip held to his unflinching desire of vengeance against the dauphin, now become King Charles VII.; but at last the miseries of France, the entreaties of the pope, and perhaps the re-membrance of an appeal addressed to him by Joan of Arc, mollified his heart; consequently he opened negotiations with the king, which resulted in a reconciliation in 1435. From that time the tide of prosperity flowed in favor of the French, who gradually expelled the English from their territory, and the assistance of the duke of Burgundy largely contributed to this result. Meanwhile he devoted himself to the improvement of his dominions in the Low Countries. His brilliant court realized the visions of chivalry; the jousts and tournaments given under his sanction surpassed in magnificence any that had yet been witnessed in Europe; the wealth of the commercial cities in Flanders was freely poured forth to defray the expenses, and noble knights from all parts of Europe flocked to the court of Russmady. Philip was the most account. Burgundy. Philip was the most respected sovereign of his time; he had nothing to fear from his most powerful neighbors; he generously welcomed at his court the dauphin Louis, then an exile from France; encouraged the artists and learned men; instituted the order of the golden fleece on the occasion of his marriage with Isabella of Portugal, and evinced wisdom as well as liberality. He purchased the county of Namur, inherited the duchies of Brabant

and Limbourg, and obtained by treaties the counties of Hainault, Holland, Zealand, and Friesland, as well as the duchy of Luxembourg. By these acquisitions he became a more powerful sovereign than his suzerain the king of France himself; and certainly, if he had wished it, could have assumed the title of king and asserted his entire independence. But he was satisfied with the consciousness of his power, and, during the 48 years of his reign, he had the gratification of seeing Burgundy the most wealthy, prosperous, and tranquil of all the states of Europe. He died in 1467; and the grief for his loss was increased by the dread which the character of his successor inspired.— CHARLES THE BOLD, who, as count de Charolais, was noted for his rashness, pride, obstinacy, and cruelty, more signally manifested the same qualities as soon as he became duke of Burgundy, and his entire career was but a succession of daring follies and rash eccentricities that finally brought him to destruction. Another misfortune was that he had to deal with the cunning and unscrupulous Louis XI. shrewd prince knew too well how to incite the fury of that mad bull, as he used to call his cousin of Burgundy. The whole life of Charles was but an open or secret conflict against Louis. The latter was instrumental in the rebellion of several cities in the Low Countries, which the duke soon reduced and severely punished. In revenge he entered the "league of the public weal," which had been formed against I con-XI. by some discontented French princes, and forced him into a disadvantageous treaty at Conflans. The king, however, did not discontinue his intrigues, and the powerful city of Liége rebelled for the second time. Just at that moment, Louis, escorted by a feeble company of his personal retainers, was paying a visit to Charles at Péronne; on the intelligence of the new revolt of Liege, the duke kept his sovereign a prisoner, and swore that he would take his life. The crafty Louis succeeded partly in soothing his anger, but could only regain his liberty by submitting to the terms of peace dictated by the duke. The most mortifying condition of his liberation was that he should march in person against the insurgents, and thus aid his vassal in suppressing a revolt which he had himself secretly instigated. Meanwhile, Charles, who aspired to the royal dignity, and wished to obtain it from the emperor Frederic III., had become vicar of the empire in Alsatia. The haughty governor appointed by him over that province encroached upon the rights of cities, then the allies of the independent Swiss. These, fearing for their own safety, entered into an intimate alliance with Louis, and the young René II. of Lorraine, whom Charles had deprived of his duchy, and soon an important war broke out. Charles assembled a splendid army, consisting of 86,000 veteran soldiers, accompanied by the most formidable train of artillery that had yet been brought into the field, and invaded Switzerland. He first be-

sieged Granson, the garrison of v dered to be hanged, in spite of the capitulation. The intelligence of this roused a desire of vengeance taineers who had flown a of the countered the advanced ; was carelessly marchi unvegh the defiles, and raising the war cry of Granson!" they charged the Burgundia the utmost intrepidity. The brilliant of the duke could not withstand the the Swiss pikemen, and commenced a which was at length converted into a tate flight. A panic dispersed the who of Charles, which left to the victors the booty that had been gained in war for centuries. This defeat, which tool March 8, 1476, inspired Charles wil grief and rage that for weeks he was bordering on insanity. At last he wonted spirits, and with unparallelou he attended to the recruiting of ha Neither treasures nor efforts were st make it stronger than ever. The make it stronger than ever. had recourse to threats and violence : in soldiers from all his provinces; h over hired auxiliaries from France, It England. At last his troops were res he marched from Lausanne toward which the Swiss had fortified, and in th ity of which their volunteers were sk sembling. The town resisted with the energy, and gave time to the Swiss to all their forces. They then advanced lief, and took a formidable position. '11 less Charles rushed to attack them, but was soon obliged to desist. His assailed by a tempest of rain which their powder and relaxed their bowstri gan to retire; when the Swiss pursue with such ardor that the Burgundian a completely routed, and Charles himsel to flight. This second defeat was th blow to his power. The states of I Flanders, and Brabant refused to gransenormous sums which he demanded to 8d army, while the duchy of Lorraine by René, attempted to resume its inc Charles, however, by exhausting a sources, succeeded in procuring sources. and went to lay siege to N: v. Re had secured the city with a son, proceeded to the Swiss aid against their common enemy. a lengthened resistance, gave René accomplish his design. On Jan. 4, 1 reappeared before Nancy at the head Swise confederates, attacked the Burg and being helped by the treason of Basso, an Italian favorite of the duke. day. Charles himself was slain in a sc mysterious manner, and his body wa after 2 days' search, lying in a rivulet with ice, and disfigured by wounds, a which had every appearance of being by assessins. The death of Charles a

end of the Burgundian dominion. at once seized on the duchy of Bur-Franche-Comté, Picardy, and Artois, ested French fiefs; he was, however, to resign Franche-Comté, but managed other provinces. Mary, the heir-s, married Maximilian of Austria, pretensions of Austria to the ownus the Burgundian provinces. The Low Franche-Comté were, however, ever possessed. But the contests by the conflicting claims were of prolonged wars between France THE PROVINCE OF BURGUNDY. thy proper, from its reunion to France became one of the most important of the kingdom. It was, moreover, most loyal. When Francis I., by the drid, agreed to give back to Charles provinces once belonging to the dust Burgundy, the states of the provly protested that they were French, had no right to give up his subf was latter were not willing to re-their allegiance. This province has the departments of Côte d'Or, Saone-et-Ain, and part of Yonne. It was celeor its industry and commerce, but above vines, which still preserve their an-

deriving their name from the ancient of Burgundy, have a reputation subtheir popularity. They are neverwines of delicious flavor and bouquet, seen supposed that they would not well see voyage, but it is now settled that orted to America and back, their greatly improved. The most regreatly improved.

when ame of a very valuable palm, in the Philippine islands. The in the construction of dwellings; urandy are made from the sap; the eaves make excellent mats; the pith cakes, equal to sago bread; the i rosaries of the converted natives m the seeds; and the spines and leaves yield a strong fibre, which was a cloth called sagoron.

the bodies of those who were dear to swell as the necessity of removing from contact objects which rapidly become has in all ages led to some dispositue dead by which it was thought these ald beet be effected. Funeral rites, too,

have in all ages been interwoven with and consecrated by the ceremonies of religion; portions of these rites have often survived the people and the religion to which they owed their origin, and the threefold sprinkling with earth with which the Christian is consigned to the tomb, is handed down to us from the pagan Greeks and Romans. Three methods chiefly, at different times and in different countries. have been employed for the disposition of the dead: mummification, incineration, and interment. Mummification was practised by the Egyptians from the most remote period to the 6th century of the Christian era. They embalmed not only human corpses but those of various animals, as the ibis, the hawk, the monkey, the cat, together with those of the greater part of the animals that were known to them. This preservation of the bodies of the dead, through a series of ages, gave rise to an enormous multiplication of mummies. "All this," said an Arab to a French savant, showing, from the summit of the great pyramid, the immense plain which for the space of 50 square leagues extends about its base, "all this is mummy."—The Hebrews in general buried their dead, though, from a passage in Isaiah (chap. xxx., v. 33), it would seem that incinera-tion was likewise practised. The cometeries were invariably situated without the walls of the cities.—Among the Greeks, in historical times, the bodies of the dead were indifferently interred or burned, and a common word (3anteer) is used for either method of burial. When the body was not burned, it was placed in a coffin made commonly of baked clay or earthenware, and buried without the town; intramural interment was forbidden, from the superstition that the presence of the dead brought pollution to the living. If burned, the body was placed upon a pyre built of wood, to which fire was communicated in the presence of those who had attended the funeral; when the flames were extinguished, the bones were collected and placed in urns made of various materials. These were preserved in tombs, built commonly on the roadsides without the city gates. The burial of the dead by the nearest related survivors was a sacred duty, and its neglect exposed them to grave accusations. After the funeral the family of the deceased partook of a feast at the house of the nearest relative, and at Athens the period of mourning continued 30 days, during which other sacrifices and feasts were celebrated. In the representation of these ceremonies on monuments, a horse's head is usually found in one corner, intended to represent death as a journey. The punishment of certain criminals was heightened by the denial of funeral rites, and there were places both at Athens and Sparta into which the bodies of such criminals were cast.-In the olden times of the republic the Romans generally buried their dead, though burning was likewise practised. Sylla appears to have been the first of the Cornelian gens who was

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burned. Under the empire burning became customary, until it was subverted by the gradual spread of Christianity, and at the end of the 4th century it had again fallen into general disuse. The funeral rites varied not only with the wealth of the deceased, but somewhat, too, in different periods of the commonwealth. the latter days of the republic and under the earlier emperors, the corpse of the man of wealth was washed, anointed with oil, and perfumed by the slaves of the undertakers, who, from residing near the temple of Venus Libitina, where all things necessary for funerals were sold, were termed Libitinarii. was placed in the mouth of the corpse to pay its ferriage into Hades, and the body, dressed in the best robes it had possessed when living, was placed with its feet toward the door in the vestibule of the house. If the deceased had received an honorary crown, it was placed upon its head, the couch was often strewn with flowers, and a branch of cypress placed before the door. It was usual to set aside a sum in the will for the funeral expenses; if this had not been done, the heir provided for them according to the extent of the inheritance; when there were a number of heirs, the expenses were assessed upon them according to their respective shares. The funeral took place at night. The procession was headed by musicians; these were followed by hired mourners, who lamented and sang the funeral song; after these came the freedmen of the deceased, sometimes amounting to a considerable number, wearing the cap of liberty. Immediately preceding the corpse were persons bearing waxen masks representing the ancestry of the deceased; the corpse itself, placed upon a couch, was commonly borne by the freedmen or by the immediate relatives; the family followed after—the men, contrary to usual custom, with their heads covered, the women with their heads bare, their hair dishevelled, and often beating their breasts and uttering piercing cries. If warranted by the rank of the deceased, the procession passed through the forum, and an oration was there pronounced over the body. Finally, the corpse, with the couch upon which it was borne, was placed upon the funeral pyre, built commonly in the form of an altar, with four equal sides. The nearest relative, with averted face, kindled the pyre, and perfumes, oils, articles of food, ornaments, and clothing were frequently thrown on while it was being consumed. When the pile was burned down, the embers were extinguished with wine, the bones and ashes carefully collected by the nearest of kin, sprinkled with perfumes, and placed in an urn. The urns were of various forms and materials, and were buried in sepulchres common to those of the same family. After a funeral the mourning and sacrifices were continued for nine days, though by the women mourning was sometimes worn for a year on the death of a husband or father. As the Christian religion gradually obtained the

ascendency, a corresponding change to in the mode of disposing of the dead were no longer burned but interred, offices of the church were substituted rites of paganism.—At a very early became customary to bury the dead in mediate neighborhood of the chur grounds consecrated for the purpose. churches were always surrounded by space of greater or less extent, for a le this practice was unattended by any evi but in towns, as the population incr interments became more numerous, u grounds often became entirely too smal necessities of the public; under such stances, the accumulation of bodies in a space led, at each new burial, to scenes: to the feelings of the community, w disengagement of gases resulting from t composition proved deleterious to the health. In London, in some of the po tricts, the soil of the churchyards was: 8, or even 4 feet in a few years, and in mediate neighborhood of such burial; epidemic diseases were both more comi more fatal. Within 80 years there h interred in a space not exceeding 81 1,500,000 bodies. ("Report on Scheme of Extramural Sepulture,' eral board of health, London, 1850.) B contamination of the atmosphere in the diate neighborhood of burial grounds, a have occurred from the carbonic acid, in them during decomposition, breaking cellars of buildings in the neighborho occurred several times in the cellars u in the immediate vicinity of the cemeter innocents at Paris, between the years 1 1780.—The period it takes for the body after inhumation varies greatly according climate, the nature of the soil, and the in which it is enveloped. Orfila and Le their experiments found nothing but t tons left of bodies that had been buries and 18 months; this period was, howev sually short. Low, damp grounds, par when they are percolated by water, he composition; dry, high, and well-When ones, on the contrary, retard it. ous burials, within a comparatively sh have occurred in a limited space, the comes saturated with the products of d sition to such a degree as to be in further absorbing them; decomposited such circumstances is retarded, and its escape directly into the atmosphere. (left undisturbed for a few years, the e covers its previous powers of absor BURYING ALIVE. The facts that pers occasionally presented all the ordinary death, yet have afterward revived, a others have undoubtedly be buried who were still living, have re: attention of both individ to the means necessary to guarde ble an occurrence. Winslow,

moderate is said to have been twice nearly bried alive, and it was in consequence of this hathe published a treatise on the signs of death, which he comes to the conclusion that indicancipient putrefaction are the only signs e relied on. Putrefaction, however, ou at very variable periods, and it is not convenient to wait for its occurrence. rigidity of the muscles that supervenes sign scarcely less certain, but it es transitory in its nature. For these Bouchut proposes to substitute the exploration of the cardiac region by During a fainting fit the heart is to beat, and in the dying, after the appration has proclaimed that all is over, the pulse has ceased to beat, and after the applied over the heart finds every thing ear placed upon the same region still for a time the beating of that organ; but , after having listened for a sufficient time, practised auscultator cannot distinguish the of the heart, life is over. (Traité des de la mort, &c., by E. Bouchut, Paris, In examining the heart in a number of iving, M. Bouchut found that the longest al between the pulsations was 6 seconds; illar investigation M. Rayer found it "If," concludes the latter, i seconds. absence of the pulsation of the heart is I by the auscultator for a period 50 times as the longest observed period, or for an of 5 minutes, the patient is undoubtedly Even this, however, admits of some ex-In new-born infants the action of the may have ceased for a longer period, and child revive, and the same thing is said serve occurred in the cold stage of Asiatic M. Michel Levy proposes on these acthat the verification of decease should at 2 periods, separated by an interval , and considers that if, on both these us the absence of all movement of the a sufficient length of time is noticed - competent observer, the interment may in perfect safety. When by an exa precaution further evidence of death e desired, he recommends the application on heated to redness to the skin; this double advantage of distinguishing bel and apparent death, and of rousing energetically where death has not The application of a red-hot iron to body for a length of time sufficient the total destruction of the whole f the skin, the injury being surround-. vivid redness, causes in the dead body a slight shrivelling of the epidermis, ng of the superficial layer of the To prevent the occurrence of preinterment mortuary houses have been a many of the towns of Germany, in the dead are retained for a time before s and interment. A bell-pull is so arranged connection with the extremities of the corpse, the slightest motion will sound an alarm,

and summon an attendant constantly on the watch. So far, these precautions have been useless; a surgeon who for 45 years had been attached to the mortuary house at Mentz, had during that period but one single alarm; it occurred from the corpse of an old man; the abdomen having subsided from the discharge of a large quantity of fluid, the arms had fallen lengthwise beside the body.

BURIAS, an island of the Philippine archipelago, lying between the southern end of Luzon and the island of Mashate; area 264 sq. m.; pop. about 1,000. The greater portion of its bold, rocky surface is devoid of any appearance of vegetation; but its few miserable inhabitants, who are all confined to a town opposite to the shores of Luzon, cultivate a little rice and potatoes, which with fish constitute their chief

subsistence.

BURIATS, BURATS, or BURATSKI, a nomadic Tartar nation of many tribes, submitted to the Russian empire in 1644. They are a branch of the Calmucks, and muster a force of \$2,000 archers. They choose their own rulers, and support themselves by the forging of iron, by other mechanic arts, and by their flocks. They are idolaters, and beside a supreme god, named Octorgon Burchan, god of heaven, they worship the planets as inferior deities. A few of these people have been converted to the Greek church, but they retain an affection and preference for their old ceremonies.

BURIDAN, JEAN, a French philosopher who flourished in the middle of the 14th century. He was born in Artois, but educated at the university of Paris, where he afterward acquired great fame as a lecturer. He was a disciple of Occam, and was ultimately driven from Paris by the persecution of the realists. He wrote a commentary on the metaphysics of Aristotle. His celebrity in modern times, however, arises from an apologue which he invented to illustrate the doctrine of free will. "An ass," says Buridan, "placed midway between two bundles of hay, would maintain his position, and die of starvation, if he had no choice; but if he turns to one side or the other for the purpose of satisfying his appetite, then he has choice, and of course freedom of will." This proposition, commonly called "Buridan's ass," was long a source of great perplexity to the schools.

source of great perplexity to the schools.

BURIGNY, JEAN LÉVESQUE DE, a French miscellaneous writer, born at Rheims in 1692, died in Paris, Oct. 8, 1785. In his 15th year he began to manifest that insatiable thirst for knowledge which ever after distinguished him. In 1718 he removed to Paris, where, in conjunction with his 2 brothers, he engaged in the compilation of a sort of manuscript encyclopedia, which, when completed, formed 12 large folio volumes, whence he drew the materials for many of his subsequent publications. His largest work, a treatise on the papal power, is not much esteemed, but his lives of Erasmus, Grotius, Bossuet, and Cardinal du Perron, are

interesting.

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BURKE. I. A county of North Carolina, abounding in beautiful mountain scenery. traversed by the Blue Ridge near its N. W. border. The soil is very fertile in some places, and produces excellent pasturage. Indian corn, wheat, oats, hay, cattle and swine, are the staples. The productions in 1850 were 232,237 bushels of Indian corn, 16,013 of wheat, 36,959 of oats and 1,200 tons of hay. There were 6 corn and flour mills, 2 tanneries, 28 churches, and 960 pupils attending public schools. Value of real estate in 1857, \$694,898. It was organized in 1777, and named in honor of the statesman and orator Edmund Burke. Area, 450 sq. m. Pop. in 1850, 7,772, of whom 2,132 were slaves. Capital, Morgantown. II. A county of Georgia, organized in 1777, separated from South Carolina by Savannah river. The Ogoechee forms its southern boundary. It has a somewhat hilly surface and a fertile soil. In 1850 Burke county produced 19,175 bales of cotton, a crop exceeded in no county of the state except Houston. During the same year it yielded 643,608 bushels of corn. 28,260 bushels of oats, and 111,232 bushels of sweet potatoes. The value of land in 1856 was \$2,817,650. Limestone, buhrstone, gypsum, agate, chalcedony, and jasper are the principal mineral productions. Trade is greatly facilitated by the central railroad, which intersects the county, and by the Savannah river, which is navigable along its borders. Area, 1,040 sq. m. Pop. in 1856, 15,260, of whom 10,993 are slaves. Capital, Waynesborough.

BURKE, ÆDANUS, an American judge and politician, born in Galway, Ireland, in 1743, died in Charleston, S. C., March 8, 1802. was educated at St. Omer's for a priest, visited the West Indies, came thence to South Carolina near the commencement of the revolutionary war, and served as a volunteer in the patriot army. He was a lawyer by profession, and in 1778 was appointed judge of the supreme court of the newly organized state. When Charleston fell in 1780, he again joined the army, but resumed his judicial office in 1782. He was opposed to the federal constitution because he feared consolidated power, was several times a U. S. senator, and wrote a famous pamphlet against the aristocratic features of the society of the Cincinnati, which was subsequently translated by Mirabeau, and used with great effect by him during the French revolution. He became chancellor of South Carolina a short time before his death. Judge Burke was distinguished for his wit; but he was also an upright and earnest republican, and possessed varied ac-

complishments.

BURKE, EDMUND, a British statesman, orator, and writer, born in Dublin, Jan. 1, 1780, died at Beaconsfield, July 9, 1797. He received the rudiments of his education at Castletown Roche, was afterward put under the tuition of a learned Quaker at Ballitore, in the county of Kildare, and entered Trinity college (Dublin) In 1744. Five years were spent there in the diligent study of the classics, metaphysics, rhetoric,

and history. After taking his bachelors a gree (1749), he made an application for the pa fessorship of logic in the university of Glagow, which was unsuccessful. His priz taste, at that period, was for me he projected a refutation of the rysu Berkeley and Locke, which he does not to have completed. It may be inf the acuteness displayed in his subseq ings that, if he had carried out his pur would have ridden a pretty success against those masters of the ring. he had entered his name in the midue ter at London, and in 1750 proceeded thitl gin the study of the law. It is commoresented that Burke went up to London needy adventurer, dependent upon his | support, and willing to take any oo might befall him; but the more auco counts show that his father was then an and in large practice, who made the amplest al. ance for his support. (See preface, by lutors, to the "Observations on the Co the Minority in the Session of 1793," a phlet not contained in the usual editions of h works.) He was, moreover, of excel ly, by his mother's side; she being use niece of Miss Ellen Nagle, who married by nus Spenser, the eldest son of the poet. Litt is known of his law studies or of his life in don, except that he wrote for the p and newspapers on politics, and in 1100 w offered some place under govers America, which he was deterred from a ing by the opposition of his father. separate literary production was "A cation of Natural Society," purporting to be "a late noble writer," in which he imitate style and manner of Lord Bolingbroke with a markable adroitness; so much so that m competent critics, such as Warburton Chesterfield, are said to have taken it authentic work. Had they considered as ly, however, they must have discovered tokens of a brilliancy of imagination and or vehement natural eloquence, to which Bolin broke never attained. It appeared in 1 and is worthy of note as well for which it throws upon the tend speculations at that time, as for itvigor and beauty of composition. burne w then in his 27th year; yet, a few months later. find him publishing his "Philosophical II into the Origin of our Ideas of the Subl Beautiful," a treatise which for many ye cupied a first rank in the aesthetic li England, although it is now supersecuprofounder researches of the continental w The same year he went to Bath for l where he married a Miss Nugent, the w of a distant relative, Dr. Christopher Nugeus. his return to London, in April, 1757, he supposed to have published "An Account of European Settlements in America." 2 v although that work is not included in the o mon editions of his writings. The fact of a of it is said to rest upon the still money having been advanced, at first as a loan, a receipt for fifty guineas, which who publisher Dodsley, by whom it ad. The beginning of a history of was written by him for the same pubthe narrative down to the time of 1 printed, when for some reason or as suspended. The probability is, that s then also employed in writing the Register," begun by Dodsley in 1759. found time for the investigations and his more elaborate undertaking. e "Register" was £100 per volume. various publications he had made avorably known, both in literary circles, and it was not long bewas invited to an active partici-political life. When Lord Halifax r to Ireland, as lord lieutenant, in de William Gerard Hamilton, often as Single Speech Hamilton, his chief who made Burke his private secretary. ces and talents of the latter secured oril, 1763, a pension of £800 per annum ish establishment; but as Hamilton, seen instrumental in getting it for him, that Burke was thereby bound to him e indignant young pensioner speedily ed the bounty. On the breaking up enville administration, two years later, us of Rockingham assumed the manof affairs, and appointed Burke his etary. Soon afterward he was шю parliament as member for Wen-Buckinghamshire, a borough belongrd Verney. The very day he took his 14, 1766) in this new and appropriate made some remarks on the address s to the throne, which attracted the attention of Pitt. Well they might sattention, for no man had ever apthat scene more wonderfully qualified a leading part in it than Burke. In hile he became the animating spirit of ingham administration, and in the nd perilous debates which grew out estion of the American stamp act, his voice was the most effective in securrate and conciliatory measures. Out ise, as well as in the house, his indusst indefatigable, while his knowledge

il. On the dissolution of the sovernment in July, 1766, Burke hort Account of a late Short Admin-in which he vigorously defended the the whigs. In the compromise cabi-Lord Chatham undertook to form he ed a place, which he declined, as he illar offer on the part of the duke of n 1767. The parliament was dissolv-8, when Burke was again returned for About the same time, he purchas-0,000 a beautiful estate near Beaconskinghamshire; a part of the purchase

ning pertaining to the history, the con-. the feelings of the colonies, was exand afterward as a gift, by the marquis of Rockingham. In 1769 Burke published his first political pamphlet, called "Observations on a late State of the Nation," being a reply to another on the "Present State of the Nation." This was followed the next year by his "Thoughts on the Present Discontents," which surpassed in luminousness, vigor, and beauty, any thing that he had yet achieved. In Nov. 1771, he was appointed agent of New York, to represent the interests of that colony near the government and before the people. He was also busily occupied in parliament, in the de-bates of which he took always a prominent part. During the sessions of 1772-3 he particularly distinguished himself by his masterly and ponderous reviews of the affairs of the East India company. Still more did he distinguish himself during the next session, 1774; on the state of America, then driven almost into insurrection by the course of the imperial government. His great speech, on American taxation, was delivered on April 19 of that year. On the dissolution of the parliament, he was nominated for the city of Bristol, for which, after a severe and protracted electoral contest of 27 days, he was returned on Nov. 8. On March 22, 1775, he delivered another powerful and eloquent speech in behalf of the Americans, which he subsequently sent to the press. The vehemence with which he entered into the cause of the colonists rendered him unpopular with his constituents, and he was compelled to defend himself in "Two Letters to Gentlemen of Bristol," which evince remarkable independence as well as ability. All the while the questions of the Catholic disabilities and of the trade with Ireland occupied a large share of his attention. On Feb. 11, 1780, he introduced his celebrated bills for regulating the household, the army, navy, and pension pay-offices, ordnance, the mint, the exchequer, &c., which he com-mended in a speech on "Economical Reform," which for breadth of view, force of reasoning brilliancy of illustration, and eloquent appeal, is almost without a parallel in the records of parliamentary eloquence. But the splendor of his talents did not reconcile the electors of Bristol to his politics, and on the occurrence of the next election, he declined to stand a candidate. But the country was not destined to lose his services, nor posterity the delight of his oratorical displays. He was returned for Malton, which borough he continued to represent during the remainder of his career. The Rockingham party coming into power in March, 1782, Burke became a privy councillor, and paymaster-general of the forces; but, not possessing an aristocratic family connection, in accordance with the spirit of those days, he was not allowed a seat in the cabinet. No office in the gift of the government was more lucrative than that of paymaster; yet Burke's first act was to introduce a bill for its reorganization, which materially lessened his own emoluments.

may judge of the worth of it, when it is stated . Among his that he effected, in that department alone, an annual saving of £47,000. On the death of the marquis of Rockingham, Burke retired for a time; but the ministry of the duke of Portland, in 1788, restored him to his former place. With that year began his labors on East Indian affairs, with his voluminous reports on the administration of justice in Bengal, and other provinces; and for 6 years, to May 7, 1789, he may be said to have lived in India, so deeply was he absorbed in the investigations and trials which arose out of the subject. It was during this interval that he conducted the famous impeachment of Hastings, in which he raised his reputation as an orator to its highest dignity and glory. Yet the arduous labors of the India business were but the prelude to other exertions, which rendered the closing years of his life the most memorable in his history. The great French revolution had broken out, and Burke, with an audacity that almost equals that of the ancient king who sought to curb the risings of the sea, undertook to check the spread of its doctrines and spirit. In 1790 his "Reflections on the Revolution of France" appeared, and 80,000 copies were sold almost on the day of its publication. It was a magnificent outburst of mingled logic, wrath, and imagination, which aroused a thousand pens in answer, and filled the world with his name. The extremely conservative sentiments of it, which appeared to rebuke every form of popular discontent and resistance of tyranny, led to an open rupture between Burke and Fox, who was then the leader of the whigs in the house of commons. The scene of their separation is described by contemporary writers as the most affecting in the annals of politics, and we cannot even now read the speeches on the occasion without emotion. Burke thereafter stood almost alone in his politics, yet his tongue and his pen were incessantly engaged in the discussion of the themes which filled his heart. His "Appeal from the New to the Old Whigs," July, 1791, his "Letters to Sir Hercules Lang-rishe," 1792, his "Thoughts on French Affairs," his "Remarks on the Policy of the Allies," 1793, and a variety of other pamphlets, show the activity of his mind as well as the earnestness of his zeal. But on June 20, 1794, he retired from the house of commons forever, conceiving that he had played his part, and conscious of the approaches of age. In August of the same year, the death of his only son, Richard Burke, inflicted upon him a terrible blow, yet he retained his cheerfulness and ac-In 1795 he received a pension of £1,200 from the civil list, and soon after another of £2,500 from the 41 per cent. fund. In his retirement, however, his pen was still busy, and in a "Letter to a Noble Lord," 1796, he showed all his original splendor and nerve. The same year, also, he published "Two Letters on the Proposal for a Regicide Peace."

school for the one on or remon He died in the . year of his age. ing his faculties we the last, and be read to him, on his death-bed, ful essay of Addison, in the "Special the immortality of the soul.—An ble vate life, exemplary in all 1 unexampled powers of conversation munificently accomplished in the various of philosophy, science, politics, hist literature, he had endeared himself to circle of friends, as much by the his character as by the prodigious of his intellect. Burke justly resc the mere force of his abilities the m vated positions of statesmanship; as an o stands at the head of British eloqu writings, distinguished by "imperia. tion " and a mighty sweep of logic, are study of rhetoricians, after the interest subjects has mainly passed away; and I to posterity a name unspotted by any weakness. Under such circumstances, e who cannot coincide with his political are glad to acknowledge his genius, and t the uniform probity of his conduct. Ar especially, will long continue to che memory, because of the useful and magr services he rendered their fathers in days which preceded their emancia new history of his life and times, by Thus knight, was commenced in London, 185

BURKE, Sir John Bernard, an El ealogist, born in London in 1814. l.. the late Mr. John Burke, who died in 1 cadet of an ancient family in Ireland, came attached, as reporter and edito London press. He originated many speculations, among others the "! Novels," a series of republications, at a the original price, with new intre by the authors, and illustrations artists. He was the founder and fir (latterly assisted by his 2 sons) of Peerage and Baronetage," long establish most complete and accurate of its cl popular that a new edition is in hausted. This work is said to have I of the most remunerative of the numer lications of the late Mr. Henry Colburt don. In May, 1867, the copyright of t was sold for a large sum, although with the payment of £400 per annum t ever of Mr. Burke's sons should edit th age," as long as it continued to be put. Burke also brought out the "Exti age," in 1 vol. 8vo, and the "General of England, Scotland, and Ireland," "History of the Landed Gentry."—Si nard Burke, called to the English ba Middle Temple, in 1889, succeeded him of the "Peerage," and has also brough vised and extended editions of his othe

BURKE, JOHN DOLY, author of best histories of Virginia, born in I

end at Trinity college, Dublin, was killed in a deal with a Frenchman, near Campbell's bridge, Ya, April 12, 1808. He came to this country is 177, conducted a newspaper at Boston, and subsequently another in New York, where he was arrested under the sedition law. He afterward removed to Petersburg, Va., where he practised law and wrote his history. He was the suther of a few dramas on historical subjects, one of which was entitled "Bunker Hill."

BURKE, WILLIAM, an Irish shoemaker, resident in Edinburgh, arraigned with his neighbor Hare, in Dec. 1828, charged with committing 8 marders. Convicted on one of the indictments hewas condemned to death. Shortly before his execution he confessed that in connection with Here, he had murdered 15 persons since the beginning of 1828, and had sold their bodies to m Edinburgh surgeon. In 1827, a debtor of Here dying in his house, the latter, to obtain in due, secretly sold the body. Burke was privy to the occurrence, and the facility of the inde prompted them to their career of crime. The victims were in most cases first intoxicated and then stifled. This exposure subjected the British anatomical schools to legal conditions in their means of obtaining subjects.

BÜRKEL, HENNICH, a German painter, born in Pirmasens, in Rhenish Bavaria, Sept. 9, 1802. He studied at the academy of Munich and in Italy, and gained much reputation by his sketches of Italian life and scenery, of which a "Conmy of Briganda" in the Campagna of Rome is the best. Since his return to Bavaria, he has executed a variety of views of the Bavarian mountains and of the Tyrol, a great number of pictures of the popular life around him, and of the tow-keepers' cottages in Switzerland, pastoral sketches of animals, and winter landscapes.

BURKITT, WILLIAM, an English divine, born at Hitcham, in Suffolk, in 1650, died at Dedham, in Essex, in 1703. He was zealous in collecting aid for the French Protestants who confered from the revocation of the edict of Nantes; and, through his instrumentality, a minister was procured to preach the gospel in Carolina. He wrote a popular commentary on the New Testament.

BURLAMAQUI, JEAN JACQUES, a Swiss witer upon civil law, born at Geneva, July 24, 184, died April 3, 1748. His early education was directed by his father, a learned man and mentary of the republic. While engaged in philosophical investigations he felt himself drawn to the study of natural law and of the rights of men; and his progress was such that he was not quite 26 when he obtained the title of honorary professor of jurisprudence in Mismatire city. He travelled in England, Holland, and France, and returning to Geneva in 1723, he began his course of lectures, which brought great reputation to himself and the university. After 15 years he resigned his professorship by meson of ill health, and became a member of the borereign council, where he continued to render service to the state until his death. The writ-

ings of Burlamaqui are remarkable for the clearness and precision of their style, and have been used as text-books in several of the German universities, and in that of Cambridge, England. He found many of his materials in Grotius, Pufendorf, and Barbeyrac, but these become in his hands freed from every digression and reduced to a geometrical simplicity and order. His principal works are, "Principles of Natural Law," published in 1747, and "Principles of Political Law," 1751.

BURLEIGH, WILLIAM CECIL, LORD, born at Bourne, Lincolnshire, Sept. 13, 1520, died Aug. 4, 1598. He has been called the son of a plain country gentleman, but his father was master of the robes to Henry VIII., and could early introduce him to the ways of courts, which, whether from long habitude or natural temperament, none better understood or pursued. He was educated for the law, and a debate with 2 priests, in which he attacked papal supremacy, so pleased the king that Cecil was at once received into royal favor. At the death of Henry, Cecil continued in favor with Edward VI., and was appointed secretary of state in 1548. On the fall of the lord protector, Somerset, who had been his friend and patron, Cecil was for a time involved in his disgrace; but he found a way of making his peace, and after a short imprisonment, was restored to favor. The duke of Northumberland, Somerset's rival and successor, was also a patron of Cecil, who avoided compromising himself in the question of the succession, and, trimming his sails, adroitly seized an opportunity as soon as he saw that the cause of Mary was likely to be successful, and tendered his submission, which was gra-ciously accepted. During the reign of Mary he took no important part in public affairs, and though a Protestant at heart conformed outwardly to the queen's religion, and thereby preserved a share of royal favor. As a country gentleman, he took part in the debates of the house of commons, and ventured to oppose the government, but in a temperate manner. When Mary's increasing ill health indicated the prudence of such a step, Cecil opened a correspondence with the princess Elizabeth, who, on her accession to the throne, at once appointed him her secretary and eventually lord treasurer. Thenceforward, till the end of his long life, he was in reality Elizabeth's prime minister. In 1571 he was created Baron Burleigh. The wise and eminently prudent policy which distinguished the reign of Elizabeth, is no doubt traceable to Burleigh. Elizabeth's impetuous and tyrannical disposition would have involved her government in an endless sea of troubles. epoch was one in which doctrines dangerous to supremacy were rife; when men's minds, disturbed by new opinions, had not yet settled down into a decided political creed. She had the good sense to discriminate Burleigh's uses to temper her more fiery nature; and no backbiting or aspersion of envious rivals could disparage her trusty servant in her estimation.

Accustomed to thread his way through the wiles of diplomacy, Burleigh was always well informed of the plots which were continually in progress or contrivance against the queen's person or the peace of the country. His sagneity and coolness outwitted them all. Burleigh's public life is the reign of Queen Elizabeth. The brilliant Leicester, the gallant Essex, the chivalrous and polished Raleigh, were the personal favorites of the queen. Burleigh alone held the helm of the English vessel of state. His private life was calm and undisturbed, his personal habits quiet and frugal. His thrift sometimes approached meanness or avarice, but he was not the less honest and upright in his public dealings. He was twice married; in early life to a sister of Sir John Cheke, who died, leaving one son, Thomas, afterward earl of Exeter; his second wife was Mildred, by whom he had Robert, his associate and successor, afterward earl of Salisbury, and two daughters. He survived his second wife by only a few years, and died full of age and honors.

BURLEIGH, WILLIAM HENRY, an American poet, born at Woodstock, Conn., Feb. 2, 1812. Bred on a farm, at 16 he became apprentice to a clothier, then to a village printer, both of whom he abandoned in disgust. He continued, however, to labor in various places as journeyman printer, and finally as editor. In the latter capacity he has had charge of the "Literary Journal" at Schenectady, the "Christian Witness," at Pittsburg, and the "Washington Banner," in which papers, and in others, he has communicated many short poems to the public. A collection of them was published in 1840. Mr. Burleigh has also taken an active part in various religious and social movements.

BURLESON, a central county of Texas, bounded on the N. by Brazos river, drained by 8 forks of the Yegua, one of the tributaries of the Brazos, and comprising an area of 1,025 eq. m. The surface is moderately uneven; the soil of the lowlands is a sandy loam, in many places very productive; that of the uplands is lighter. Timber is abundant, about ‡ of the county being covered with red and post oak. The staples are grain, cotton, sugar, and live stock. In 1850 the productions amounted to 1,010 bales of cotton, 10 hogsheads of sugar, 70,000 bushels of Indian corn, 8,620 of sweet potatoes, and 17,280 pounds of butter. There were 4 churches, and 115 pupils attending public schools. In 1857 there were 80,742 head of cattle, valued at \$180,000, and 2,354 horses, valued at \$121,100. The value of real estate was \$637,660, and the aggregate value of all taxable property, \$1,802,706. Formed from Milan county in 1846. Capital, Caldwell. The county was named in honor of Gen. Edward Burleson, vice-president of the republic of Texas. Pop. in 1856, 4,079, of whom 1,842 were slaves; slave pop. in 1857, 1,348.
BURLINGTON, a central county of New

Jersey, extending entirely across the state, and

lying between the Atlantic on the S. R. Delaware river on the N.W. The level. The soil near the river is fertile; in other localities it is sau woods are found in various parts of two Bog iron ore is abundant, and in the portion are frequently found, imbedded petrified vegetables, and animal relics, shells, bones, &c. Corn, wheat, potato and butter, are the staples. In 1850: ductions were 152,369 bushels of wh of Indian corn, 159,898 of oats, 41, hay (the greatest quantity produced county of the state), 688,860 pounds of and 43,781 of wool. There were 30 c flour mills, 2 cotton factories, 2 wooller 7 founderies, 4 glass manufactories, 2 paps 52 saw mills, 3 newspaper offices, 83 churc 6,771 pupils attending public schools. Th den and Amboy railroad traverses the This county was organized in 1694, and from Bridlington (commonly pronounc lington), a town in England. Area, 60 Pop. in 1855, 46,442. Capital, Mount I

BURLINGTON, the name of severa and cities of the United States. I. A ci

of entry, and the capital of Chittenden c

situated on a bay of its own name on shore of Lake Champlain. Pop. in 1854 Its harbor is the best on the lake, being access from N. and S., protected from W by a breakwater 900 feet long, and h lighthouse erected in 1826 on Juniper is the mouth of the bay. It is the larger in the state, and in beauty of scenery: tion is scarcely surpassed in New E ground on which it is built rises grauum the shore to a height of 281 feet, the sumr manding one of the finest views in the States. Looking west the eye passes the city, with its straight avenues, its | dwellings surrounded by trees and garde its elegant public buildings; over the la 10 miles wide, dotted with islands, and by many vessels, to the Adirondac mo which lift their peaks more than 5,000 fee the water. Eastward lies the broad exp fertile land bounded by some of the loftie Green mountains. On the N. is seen the W or Onion river, with the manufacturing v Winooski, connected with the city by a and partly comprised in Burlington to The university of Vermont, comprising buildings, founded in 1791, and endower state with 29,000 acres of land, the ann enue from which is \$2,500, occupies the ground in the city. It has now (1858) 7 sors, 98 students, and a library of 13,000 v Connected with it is a medical school. Tl edifices of most note are 8 churches, a house, and a jail, several of which face a public square. There are 17 schools, an ac 2 female seminaries, 3 newspaper offices, l a custom-house and marine hospital built a brewery, a grist mill, and 8 saw-mill mercantile business amounts to about \$1.

Most of the lake vessels are owned use tonnage in 1857 was 5,900 tons. emont central and Canada, and the Rut-Burlington railroads offer ready comwith all parts of the United States Steamboats stop here daily on the rom Whitehall to Montreal, and a steam boat crosses the lake to Port Kent and .-Burlington was first permanently 1783, and organized in 1787. was opened in 1789, and the first ional church formed in 1795. During of 1812 a garrison and hospital were nere, and during the winter of 1813, so mortality prevailed among the 4,000 osing the former, that for several The tomb of Gen. Ethan Allen, who in 1789, is in a burying ground half of the university. II. A city and port of Burlington co., N. J., on the Delariver, at the mouth of Assiscunk creek, 18 I. E. of Philadelphia. It was founded in ipally by members of the society of s, who, for a long period, exercised a coninfluence over its affairs. It was long cat of government for West Jersey, and official residence of the last colonial William Franklin, until, at the breakmout of the revolution, he was taken thence, mer. to New England. It was in many cts a leading settlement in early times, d the legislature and the county and public fairs, to which thousands y resorted, and as early as 1777 rea a printing office and newspaper. carried on a lucrative commerce with Indies, both before and after the layn Philadelphia, built vessels, and subsemy built and fitted out a large privateer, cruised successfully against the French. nade the see of a bishop, and St. Mary's weal church was liberally endowed by of which is held to the present day, with a massive communion service, a by the same princess. As Philadelphia in importance, Burlington declined. (1858) contains about 5,000 inhabitants, 7 as, 2 Friends' meeting houses, 2 banks, a newspaper, an ancient library, which us a large collection of very rare and le works, and public schools which are endowed by a legacy of land from one of settlers, now become exceedingly pro-Burlington college, an Episcopal instisducates a large number of students; and y's Hall also, under the supervision of Doane, usually contains about 75 pupils. n, lows, situated on the W. bank of the Missippi river, about 14 miles N. of an easterly mension of the main boundary line between owa and Missouri. The W. bank of the Misimpoi at this point consists mostly of steep in of carboniferous limestone that attain an

elevation of 150 feet, furnishing an abundance of excellent materials for building, paving, and the manufacture of lime. The stone quarries in this formation offer an interesting field for the investigations of the geologist, being rich in the organic fossils of the carboniferous era, particularly of the crinoid family. Though corresponding rock formations in Europe contain large deposits of lead, but little of that mineral has been found in this immediate vicin-The summits of these cliffs are capped with some 80 or 40 feet of diluvial clay, that, with a rich surface stratum of vegetable mould. forms the table-land of the surrounding country. At the base of these cliffs the slope of their debris passes into the river. This deep embankment is scooped out through the centre of the city by the waters of a small creek, called the Hawk-eye, which enters the Mississippi nearly at right angles. On either side of this creek, and to the west, about half a mile from the river, where the creek branches to the right and left, the ground gradually rises to the level of the surrounding table land, thus giving to the central portions of the town an arrangement similar to the area of an amphitheatre, and adding much to its beauty and salubrity. On the opposite side of the river low lands, mostly subject to occasional inundation, extend some 7 or 8 miles to the Illinois bluffs.—This town was laid out in 1834, and named after Burlington, Vt. In 1837, when the territorial government of Iowa was established, Burlington became the capital, a distinction it lost in 1840. Possessed of great natural advantages, and intelligent and enter-prising inhabitants, Burlington has advanced steadily in wealth and population; the latter now (1858) amounts to 16,000. It is a terminus of the Chicago and Burlington, the Peoria and Burlington, and the Burlington and Missouri river railroads; the first of which lines has been completed now somewhat over 3 years, and the second over 1 year. Eleven religious congregations have churches, viz.: 8 Presbyterian, 2 Methodist, 2 Roman Catholic, 1 Congregationalist, 1 Baptist, 1 Lutheran, and 1 German reformed church. Ample means of education are provided; 2 fine public school-houses adorn the opposite hills of the city, north and south, capable of accommodating from 4 to 6 schools each, and others are in process of erection; while, on the western rise, the Burlington university, a flourishing institution, established in 1854, occupies a conspicuous site. Burlington also possesses 2 daily, 1 tri-weekly, and 4 weekly newspapers, 8 flouring mills, 8 founderies, 1 oil mill, 8 pork-packing houses, 8 banking houses, 9 breweries, 6 saw-mills, 1 starch factory, and 3 soap factories. The extensive coal fields in the vicinity offer unusual facilities for manufactures.

BURLINGTON, RICHARD BOYLE, EARL OF, an English architect, born April 25, 1695, died 1753. He studied architecture in Italy, but had no feeling for the Gothic. The portfolios of Inigo Jones and the structures of Palladio won his admiration, and on the principles which

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these exhibited he erected many buildings, of which the best known are his own villas at Cheswick and at Lanesborough in Yorkshire, the front of Burlington house (lately purchased by government for scientific societies, &c.), the dormitory at Westminster school, mansions for several noblemen, his friends, the reparation of St. Paul's church, Covent garden (by Inigo Jones), and the assembly room at York, which is his best work. He was the friend of Pope, who eulogized him in his "Fourth Epistle."

who eulogized him in his "Fourth Epistle." BURMAII, or the Kingdom of Ava, an extensive state in the S. E. of Asia, beyond the Ganges, formerly much larger than at present. Its former limits were between lat. 9° and 27° N., ranging upward of 1,000 miles in length, and over 600 in breadth. At present the Burmese territory reaches from lat. 19° 25' to 28° 15' N., and from long. 93° 2' to 100° 40' E.; comprising a space measuring 540 miles in length from N. to S., and 420 miles in breadth, and having an area of about 200,000 sq. m. It is bounded on the W. by the province of Aracan, surrendered to the British by the Burmese treaty of 1826, and by the petty states of Tiperah, Munnipoor, and Assam, from which countries it is separated by high mountain ridges; on the S. lies the newly acquired British province of Pegu, on the N. upper Assam and Thibet, and on the E. China. The population, according to Capt. Henry Yule, does not exceed 8,000,000.—Since the cession of Pegu to the British, Burmah has neither alluvial plains nor a seaboard, its southern frontier being at least 200 miles from the mouths of the Irrawaddy, and the country rising gradually from this frontier to the north. For about 800 miles it is elevated, and beyond that it is rugged and mountainous, This territory is watered by three great streams, the Irrawaddy, its tributary the Khyen-dwem, and the Salwin. These rivers have their sources in the northern chain of mountains, and run in a southerly course to the Indian ocean. -Though Burmah has been robbed of its most fertile territory, that which remains is far from unproductive. The forests abound in valuable timber, among which teak, used for ship building, holds a prominent place. Almost every description of timber known in India is found also in Burmah. Stick lac of excellent quality, and varnish used in the manufacture of lacquered ware, are produced. Ava, the capital, is supplied with superior teak from a forest at 15 days' distance. Agriculture and horticulture are everywhere in a remarkably backward state; and were it not for the wealth of the soil and the congeniality of the climate, the state would be very poor. Fruits are not cultivated at all, and the crops are managed with little skill. Of garden vegetables, the onion and the capsicum are the most generally cultivated. Yams and sweet potatoes are also found, together with inconsiderable quantities of melons, cucumbers, and egg-plants. The young shoots of bamboo, wild asparagus, and the succulent roots of various aquatic plants, supply to the

Mangoes, pit pies, on the jack (a species of bru-Tic, we fig. and the plantain (that atest civilization), are the chief frum, and a grow with little or no care. The cl are rice (which is in some parts used culating medium), maize, millet, when pulses, palms, sugar-cane, tobacco, c short staple, and indigo. Sugar-cane generally cultivated, and the art of sugar is scarcely known, although the been long known to the people. coarse sugar is obtained from the juic Palmyra palm, of which numerous gr found, especially south of the capital. is so badly managed as to be entirely exportation. Rice in the south, and 1 millet in the north, are the star Sesamum is universally raised for the northern hills the genuine tea-plant is cultivated to considerable extent: 1 larly, the natives, instead of steepi do the Chinese tea, eat the leaf prejoil and garlic. Cotton is raised chiese dry lands of the upper provinces.—T forests of Burmah abound in wild among which the chief are the elepl one-horned rhinoceros, the tiger and the wild hog, and several species of d birds, the wild cock is common; and also varieties of pheasants, partridges The domestic animals are the ox, u and the buffalo. The elephant also is a draught animal. The camel is not A few goats and sheep are found, breed is little cared for. Asses are tle used. Dogs are neglected in the economy, but cats are numerous. He used exclusively for riding, and are rar than thirteen hands high. The ox is of draught and burden in the north: falo in the south.—Of minerals, gold down in the sands of the mountains, in the beds of the various streams mines are wrought at Bor-twang, on nese frontier. The amount of gold and tained annually has been estimated to \$1,000,000. Iron is abundant in the portion of Laos, but is so rudely wn from 30 to 40 per cent, of the metal process of forging. The petroleum pi banks of the Irrawaddy produce 8,000,00 per annum. Copper, tin, lead, and a are known to exist in the Laos counts is doubtful if any of these metals are in considerable quantities, owing to 1 rance of the people of the methods of ores. The mountains near the city of nish a superior quality of limestone; fine marble is found 40 miles from the ca the banks of the Irrawaddy; amber plentifully that it sells in Ava at the 1 of \$1 per pound; and nitre, natron, coal are extensively diffused over the country, though the latter is lit

inhabitants the

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leum, which is produced in such abundance, d by all classes in Burmah for burning in and as a protection against insects. up in buckets from narrow wells sunk to a) of from 210 to 800 feet; it bubbles up at like a living spring of water. Turpend in various portions of the country, IS IC vely exported to China. is 61 I sappuire, ruby, topaz, and amethyst, varieties of the chrysoberyl and spinelle, wand in 2 districts in the beds of rivulets. All over \$50 in value, are claimed by the crown, ent to the treasury; and no strangers are ed to search for the stones.—From what ween said, it is evident that the Burmese have made but little advance in the practice of the useful arts. Women carry on the whole process of the cotton manufacture, using a rude som and displaying comparatively little in-or skill. Porcelain is imported from ; British cottons are imported, and even interior undersell the native products; the Burmese melt iron, steel is brought engal; silks are manufactured at several from raw Chinese silk; and while a ety of goods is imported, the exare comparatively insignificant, those to with which the Burmese carry on their e commerce, consisting of raw orum ntal feathers, chiefly of the blue mole swallows' nests, ivory, rhinoceros and borns, and some minor species of precious In return for this, the Burmese import t copper, orpiment, quicksilver, vermilin ron pans, brass wire, tin, lead, alum, silver, and gold leaf, earthenware, paints, carpets, tea. honey, raw silk, velvets, Chinese verdigris, dried fruits, paper, fans cuas, suces, and wearing apparel. lver ornaments of a very rude description we made in various parts of the country; weadat Ava; idols are sculptured in considquantities about 40 miles from Ava, where a hill of pure white marble. The curn a wretched condition. Lead, silver, all uncoined, form the circulating A large portion of the commerce is carried on by way of barter, in consequence of the difficulties attending the making of small pyments. The precious metals must be weighed and assayed at every change of hands, for which bankers charge about 31 per cent. Interest Parges from 25 to 60 per cent. per annum. Patroleum is the most universal article of conmanption. For it are exchanged saltpetre, lime, per, lacquer ware, cotton and silk fabrics, iron and brass ware, sugar, tamarinds, &c. The yonnet-ni (the standard silver of the coun-切) has generally an alloy of copper of 10 or 15 Per cent. Below 100 the mixture does not pass current, that degree of fineness being required in the money paid for taxes.—The revenues of be empire proceed from a house tax, which is bried on the village, the village authorities steward assessing householders according to

their respective ability to pay. This tax varies greatly, as from 6 tikals per householder in Prome to 27 tikals in Tongho. Those subject to military duty, the farmers of the royal do-main, and artificers employed on the public works, are exempt. The soil is taxed according to crops. The tobacco tax is paid in money; other crops pay 5 per cent. in kind. The farmers of the royal lands pay over one-half their crops. Fishing ports on lake and river are let either for a stated term or for a proportion of dried fish from the catch. These various revenues are collected by and for the use of the officers of the crown, each of whom receives. according to his importance, a district greater or less, from the proceeds of which he lives. The royal revenue is raised from the sale of monopolies of the crown, among which cotton is the chief. In the management of this monopoly, the inhabitants are forced to deliver certain articles at certain low prices to the crown officers, who sell them at an enormous advance. Thus, lead is delivered by the producers at the rate of 5 tikals per bis, or 860 lbs., and his majesty sells it at the rate of 20 tikals. The royal revenues amount, so it is stated, to about 1,820,000 tikals, or £227,500 per annum, to which must be added a further sum of £44,250, the produce of certain tolls levied in particular districts. These moneys keep the particular districts. These moneys are particular districts. These moneys are bonsehold. This system of taxation, in its dethough despotic, is singularly simple in its details; and a further exemplification of simplicity in government, is the manuer in which the army is made to maintain itself, or, at least, to be supported by the people. The modes of en-listment are various; in some districts the volunteer system being adhered to, while in others, every 16 families are forced to furnish 2 men armed and equipped. They are further obliged to furnish to these recruits, monthly, 56 lbs. of rice and 5 rupees. In the province of Padoung every soldier is quartered upon 2 families, who receive 5 acres of tax-free land and have to furnish the man of war with half the crops, and 25 rupees per annum, beside wood and other minor necessities. The captain of 50 men receives 10 tikals (the tikal is worth \$11, or 21 rupees) each from 6 families, and half the crop of a 7th. The bo, or centurion, is maintained by the labor of 52 families, and the bo-gyi, or colonel, raises his salary from his own officers and men. The Burman soldier fights well under favoring circumstances, but the chief excellence of a Burman army corps lies in the absence of the impedimenta; the soldier carries his bed (a hammock) at one end of his musket, his kettle at the other, and his provisions (rice) in a cloth about his waist.— In physical conformation, the Burmese appear to be of the same race which inhabits the countries between Hindostan and China, having more of the Mongolian than of the Hindoo type. They are short, stout, well proportioned, fleshy, but active; with large cheek-bones, eyes obliquely placed, brown but never very dark

complexion, coarse, lank, black hair, abundant, and more beard than their neighbors, the Siamese. Major Allen, in a memoir to the East India government, gives them credit for frankness, a strong sense of the ridiculous, considerable readiness of resource, little patriotism, but much love of home and family; comparatively little prejudice against strangers, and a readiness to acquire the knowledge of new arts, if not attended with too much mental exertion. They are sharp traders, and have a good deal of a certain kind of enterprise; are temperate, but have small powers of endurance; have more cunning than courage; though not blood-thirsty by nature, have borne phlegmatically the cruelties of their various kings; and without being naturally liars and cheats, are yet great braggarts and treacherous.—The Burmese are Buddhists by faith, and have kept the ceremonies of their religion freer from intermixture with other religions than elsewhere in India and China. The Burmese Buddhists avoid, to some extent, the picture worship practised in China, and their monks are more than usually faithful to their vows of poverty and celibacy. Toward the close of the last century, the Burman state religion was divided by 2 sects, or offshoots from the ancient faith. The first of these entertained a belief similar in some respects to pantheism, believing that the godhead is diffused over and through all the world and its creatures, but that it appears in its highest stages of development in the Buddhists themselves. The other rejects entirely the doctrine of the metempsychosis, and the picture worship and cloister system of the Buddhists; considers death as the portal to an everlasting happiness or misery, according to the conduct of the deceased, and worships one supreme and all-creating spirit (Nat). The present king, who is a zealous devotee to his faith, has already publicly burned 14 of these heretics, both parties of whom are alike outlawed. They parties of whom are alike outlawed. are, nevertheless, according to Capt. Yule, very numerous, but worship in secret.—The early history of Burmah is but little known. The empire attained its acme of power in the 11th century, when the capital was in Pegu. About the beginning of the 16th century the state was split into several minor and independent governments, which made war upon each other; and in 1554, when the king Tshen-byoo Myayen took Ava, he had subdued to himself all the valley of the Irrawaddy, and had even subjected Siam. After various changes, Alompra, the founder of the present dynasty (who died in 1760), once more raised the empire to something like its former extent and power. Since then the British have taken from it its most fertile and valuable provinces.—The government of Burmah is a pure despotism, the king, one of whose titles is lord of life and death, dispensing imprisonment, fines, torture, or death, at his supreme will. The details of the government are carried out by the hlwot-dau, or council of state, whose presiding officer is the

pre-nominated heir-apparent to the the if there is no heir named, then a prince blood royal. In ordinary times the composed of 4 ministers, who have, as no distinct departments, but act chance directs. They form also a hig of appeal, before whom suits are brou final adjudication; and in their indivi city, they have power to give judgment which are not brought up to the collectiv cil. As they retain 10 per cent. of the pin suit for the costs of the judgment, t rive very handsome incomes from this From this and other peculiarities of mese government, it is easily seen than is rarely dealt out to the people. Every holder is at the same time a p le judges are venal, the police powerse and thieves abound, life and property secure, and every inducement to pr wanting. Near the capital the power king is fearful and oppressive. It de with distance, so that in the more provinces the people pay but little h the behests of the lord of the whi phant, elect their own governors, w ratified by the king, and pay but sligh ute to the government. Indeed, the inces bordering on China display the Indeed, the spectacle of a people living content der two governments, the Chinese mese taking a like part in the n of the rulers of these localities, but, generally settling on the sau withstanding various British visited Burmah, and although u rations have been carried on users successfully than elsewhere in Asia. terior of Burmah is yet a compl incognita, on which modern geograps map-makers have ventured some wild a but concerning which they know ver in detail.—(See "Narrative of the by the Governor-General of India, to tom of Ava, 1855," by Capt. Henry Yule. don, 1858.)

BURMANN, the name of a Dutch i tinguished for learning.-France Leyden in 1628, died in 1679, 1 Protestant minister who had be France. He officiated as professor on and became known to fame by his pecially by his commentaries on the ment.—Peter, his eldest son, horn June 26, 1668, died in Leyden, studied under Gravius and Grouvius, r his diploma of doctor at law in 1688. tr extensively abroad, gained practice of his profession, anu ciated as professor of eloquence, and politics, at Utrecht, and strucque Leyden, where he was twice rector of u versity, and where he finally be of the history of the United Provin poetry, and keeper of the university a His editions of Latin classics and of the w hanan gained for him a great repung the learned men of his time. He is also, treatises on Roman antiquities, as revenues of the Roman people, a distont the Jupiter Fulgurator, the episiadius and other scholars, and a more work of the same kind, entitled Syltiolarum (Leyden, 5 vols., 1727), which at usefulness to classical scholars from m of literary anecdotes and critical He was frequently engaged in

He was frequently engaged in the speaks of Bentley with a certain f bitterness. His life was written by

who says of him that "if reputacommated by usefulness, he may claim degree in the ranks of learning than rs of happier elocution or more vigoron." In the "Dunciad," however, burmann's name coupled with those of other scholars against whom Pope's is directed.—Among the many other bers of the same family the nephew sding, Peter Burmann, occupies the mous position. He was born in

mous position. He was born in min, Oct. 13, 1714, and died June 24, n 1736 he was appointed professor of e, history, and poetry at Francker, 742 he was transferred to the Athensemsterdam, where he taught Greek in to the same branches of study, officithe same time as librarian and as visitor tin schools. He inherited the controposition and also the literary tastes use, and published editions of Virgil,

anes, and other classic authors.

IANN, GOTTLOB WILHELM, a German n May 18, 1737, at Lauban, died Jan. 5, Berlin. He is now chiefly rememberwonderful talent of improvisation.

given theme he would for several of in verse a succession of excellent

ISTER, HERMANN, a German natural at Stralsund in 1807. He studied at Greifswald and Halle, and in 1880 Berlin to qualify himself to be a teachral history. He was soon after apminstructor in the gymnasium at Cowhile there published, in 1837, his of Natural History." In 1842 he benessor of zoology in the university of here he still remains one of the most teachers, extending his lectures beyond

province to geology and other to matural history. In 1851 and '52 a scientific journey to Brazil, of a published an account in 1853. Beserous zoological publications, his more it works are a "History of Creation," sological Pictures of the Earth and its nts."

I, RICHARD, an English divine and law, born near Winton, in Westmoreland, Orton, in the same county, Nov. 20,

1789. His 2 most important works are his "Justice" and his "Ecclesiastical Law." The former is a digest of the common and statute law of England, for the guidance of magistrates and parish officers; the latter is a digest of English ecclesiastical law, for the use of churchmen and canonists.

BURNAP, GEORGE WASHINGTON, an American clergyman of the Unitarian denomination, born in Merrimack, N. H., in 1802. He was graduated at Harvard college in 1824, and from the same institution received the title of doctor of divinity in 1854. In 1827 he was ordained pastor of the 1st Independent church in Baltimore, where he still remains. Dr. Burnap has been a voluminous writer, his publications being chiefly of a theological and controversial character. In 1835 he wrote a doctrinal work on the "Controversy between Unitarians and other Denominations of Christians." Since then he has published "Lectures to Young Men," "Lectures on the Sphere and Duties of Woman," "Lectures on the History of Christianity," "Expository Lectures on the Principal Texts of the Bible which relate to the Doctrine of the Trinity," and various other works of theology, as well as numerous occasional addresses. Burnap has also contributed to Sparks's "American Biography" a life of Leonard Calvert, the first governor of Maryland. He is distinguished for his profound knowledge of the sacred Scriptures, and his writings, without ornate rhetoric, are pure in style, marked by logical acumen

and clear judgment.

BURNES, Sir ALEXANDER, British geographer and diplomatist, born at Montrose, Scotland, May 16, 1805, assassinated in Cabool, Nov. 2, 1841. At the age of 16 he joined the Indian army at Bombay as cadet. He was appointed interpreter and translator, in Surat, from his proficiency in Hindostanee and Persian, Dec. 25, 1822. Disturbances having broken out in Cutch, his regiment was ordered there, and, in Nov. 1825, he was appointed Persian interpreter to the army for the invasion of Sinde. In 1829 he was appointed assistant to the political agent at Cutch. In 1880 he went to Lahore, the capital of the Punjaub, ostensibly in charge of a present of horses from William IV.
to Runjeet Singh, but actually to obtain accurate knowledge of the geography of the Indus.
He surveyed the mouths of the Indus and made a map of the lower part of its course. He immediately followed up this mission by an expedition into central Asia, under the especial direc-tion of Lord William Bentinck, then viceroy of India. A year was occupied on this tour through Sinde, Afghanistan, Cabool, Tartary, Bokhara, and Persia. He returned to England in Oct. 1888, and was warmly received by the East India directors and the board of control. He received £800 for the 1st edition of his "Travels in Bokhara." The geographical society voted him its gold medal and a premium of 50 guineas "for the navigation of the Indus, and a journey by Balkh and Bokhara across central Asia." The French

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geographical society gave him its gold medal and a brilliant reception. William IV. specially thanked him for his services. On returning to India, in 1885, he undertook a mission to Hyderabad to prevent the necessity of a war with Sinde, and succeeded. He obtained permission from the ameers to survey the Indus, and a pledge that the practice of robbing stranded vessels should cease. In 1836-'7 he was sent to Dost Mohammed, at Cabool, on a commercial mission; but, persuaded that this prince meditated treachery toward the Anglo-Indian government, remonstrated, was dismissed, and retired to Simla, whence, when it was resolved to replace Shah Shoojah on the throne of Cabool, he preceded the army, in charge of the commissariat, and while so employed received the announcement of his having obtained the honor of knighthood and the brevet rank of lieutenantcolonel. In Sept. 1839, on the restoration of Shah Shoojah, Sir Alexander Burnes was made political resident at Cabool, with a salary of £3,000 a year. In this capacity he continued until Nov. 2, 1841, when on the outbreak of the Cabool insurrection, he was murdered, with his brother Lieut. Charles Burnes, and others.
After his death was published "Cabool," in
which he gave a narrative of his journey to, and residence in, that city in the years 1836, '7, and '8.

BURNET, a central county of Texas, formed in 1852 from Travis, Williamson, and Bell counties, and having an area of about 950 sq. m. It has a hilly and, in some places, mountainous surface, about ½ of which is occupied by a growth of oak, elm, and cedar. Marble is found in great abundance; beds of coal have been opened, and a few traces of gold have also been discovered. The staples are wheat and Indian corn. In 1857 there were 12,480 head of cattle, valued at \$62,000, and 1,227 horses, valued at \$53,100. The value of real estate was \$215,600, and the aggregate value of all taxable property, \$474,350. Capital, Hamilton. Pop. in 1856, 1,898, of whom 190 were slaves; slave pop. in 1857, 197.

slaves; slave pop. in 1857, 197.
BURNET, Gilbert, bishop of Salisbury, born in Edinburgh, Sept. 18, 1643, died in London, March 17, 1715. He took the degree of M. A. at Aberdeen before the age of 14, studied law for a short time, but at the age of 18 was licensed to preach. His sermons, from the first, were extempore. He declined a living, as being too young for such a charge. After visiting Oxford, Cambridge, and London, he travelled in the Low Countries and France. On his return, in 1665, he was made a fellow of the royal society, and soon after, accepting the living of Saltoun, in East Lothian, was ordained by the bishop of Edinburgh. He remained in Saltoun for several years, an active and useful parish priest, and drew up a statement of the abuses practised by the Scottish bishops, avowing the authorship, for doing which Archbishop Sharpe proposed excommunication and deprivation. This did not take place; the rest of the hier-

archy objected to such extreme measu 1669 Burnet was elected divinity prof Glasgow, where he continued for 4 striving to steer a middle course betw 2 parties then contending for powe Presbyterians feared that his moderati lead to the promotion of episcopacy, Episcopalians believed that his aim exempt dissenters from their persecutie 1669 he published his first work, "A and Free Conference between a Conforma Non-conformist." While compiling moirs of the Dukes of Hamilton," from archives at Glasgow (it was not publ 1676), he had occasion to visit Londou he is said to have refused a Scottish bi on the plea of youth. On his return, the married Lady Margaret Kennedy, d of the earl of Cassilis (a leader of the party), and, on the day of their union, ed her with a deed securing the whole fortune to herself, in order to silence th tation of having married a lady muc than himself from interested motives. he published "A Vindication of the Au Constitution, and Laws of the Church,' tise much at variance with his previous o being so defensive of the doctrine of obedience that it was highly approcourt, and obtained for him the offer of tish archbishopric, which he declined. appeared his "Mystery of Iniquity Un and in the same year, while he was in l he was made chaplain to Charles II., with and also with the duke of York, he had private interviews; but soon after his m struck off the list of royal chaplains, be opposed the arbitrary measures of the Lauderdale. He resigned his Glasgow sorship, and removed to London, w! printed his "Truth of Religion Reveale was appointed preacher at the Rolls cha lecturer at St. Clement's. In 1679, stand with the Protestant party, he the first volume of his "History of the mation," for which he received votes of from both houses of parliament, and a to complete it. The second volu in 1681, when he also printed "Au Au the Life and Death of the Earl of Roc having attended that profligate noblown request. Dr. Johnson says: "11 the critic ought to read for its elphilosopher for its argument, and the its piety." In 1682 he published his Sir Matthew Hale," and some minor wo wrote a private letter to Charles monstrating with him on his public ernment and private licentiousness, minding him of the fate of his father. I is said to have read the letter twice. thrown it in the fire, but ordered t of Chichester to be offered to the wa would entirely come to his interest. declined; attended Lord the scaffold in 1688; v

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achership and St. Clement's lecturerrder of the king; and, on the death II., early in 1685, retired to the confter visiting Paris he travelled through of France, Italy, Switzerland, and the Fermany, to Holland, and subsequently an account of his journey in a series lressed to Mr. Boyle. Visiting the the invitation of the prince and us Orange, in 1686, he so actively in the preparations for a change of England, that James II. ordered him cuted for high treason, and demandson from the states-general; but with-, as, by taking as his second wife a dy of great wealth, named Scott, he ously acquired the rights of naturali-Holland. This failing, James actually ted £3,000 to have him kidnapped. companied William to England, in is chaplain, and was soon after made Salisbury. In the house of lords, rnet declared himself to be in favor of measures toward non-juring divines, he toleration of Protestant dissentacted as chairman of the committee to bill of rights was referred. In 1689 ed the coronation sermon of William with all his wonted ability," says "and more than his wonted taste ment; his grave and eloquent dis-as polluted neither by adulation nor aity." Soon after his installation in he addressed to the clergy of his ral letter, in which was a paraor of being taken as a declaration of William and Mary to the crown grounded on the right of conquest. ars afterward (Jan. 1693), it was the house of commons, and, after 2 debate, carried by a majority of 7 of 322, that this pastoral letter be , he hands of the common hangman. ade no complaint, and was generally e felt the insult deeply, and garrulous in relating the most minute particerning himself, has preserved a most silence, in the "History of his Own to this incremation. In 1694 he the funeral sermon of Archbishop in 1695 he published "An Essay on er of Queen Mary;" in 1696, "A of Archbishop Tillotson." In 1698 , sutor to the young duke of Gloucester, princess Anne, and in the same year ost his second wife) married Mrs.

a rich widow, the authoress of a
of Devotion." In 1699 appeared his
l "Exposition of the Thirty-nine f the Church of England;" in 1710, urch Catechism Explained;" and in third volume of his "History of the ion." The introduction to this volume ared separately in 1712, and was lealt with by Swift. Having lived to he accession of the house of Hanover

to the English throne, he died of a pleuritic fever at the age of 72. He left 3 sons, one of whom (Thomas, afterward one of the judges of the common pleas) published a biography of his father, prefixed to a "History of his Own Times, from the Restoration of King Charles II. to the Conclusion of the Treaty of Peace in the Reign of Queen Anne." This, the most remarkable of Bishop Burnet's numerous works, was greatly ridiculed by Dean Swift, Arbuthnot, and Pope. "Memoirs of P. P., Clerk of this Parish," by the latter, is now the best known of these squibs. Macaulay, in the second volume of his "History of England," has drawn the character of Burnet, vindicating his integrity and ability

BURNET, JACOB, judge of the supreme court of Ohio, and one of the founders of Cincinnati, born at Newark, N. J., Feb. 22, 1770, died May 10, 1853. He graduated at Princeton in 1791, was admitted to the bar in 1796, immediately after which he removed to Cincinnati, then a village with less than 500 inhabitants. He was a member of the territorial government of Ohio from 1799 till the establishment of a state government in 1803. He retired from the practice of his profession in 1816, while holding a distinguished rank as a lawyer, and after having been several times elected to the state assembly. In 1821 he was appointed judge of the supreme court of Ohio, and was soon after chosen by the legislature of Kentucky a commissioner to adjust matters in dispute between that state and Virginia. It was chiefly through his influence that the congressional act of 1821 was passed granting relief to the people of the west for debts due to the national government for lands. In 1828 he was elected U.S. senator, to fill the vacancy occasioned by the resignation of Gen. Harrison. Judge Burnet was an original member, and in many cases president, of the principal benevolent and scientific societies in Cincinnati, and was elected a member of the French academy of sciences upon recommendation of Lafayette. He published in 1847 an instructive volume of "Notes on the North-western Territories." The principal hotel of Cincinnati is called after him, the Burnet house.

BURNET, JAMES. See MONBODDO.

BURNET, John, engraver, painter, and artcritic, born at Fisher-row, near Edinburgh, March 20, 1784. He learned etching and engraving during 7 years' apprenticeship to Mr. Robert Scott, of Edinburgh, and, together with the late Sir William Allan and the late Sir David Wilkin weep a student in description and David Wilkie, was a student in drawing and painting at the trustees' academy, Edinburgh. In 1806 he went to London, where he engraved Wilkie's "Jew's Harp," "Blind Fiddler," "Rent Day," "Rabbit on the Wall," "Chelsea Pensioners Reading the Gazette of the Battle of Waterloo" (his largest and most elaborate work); "Letter of Introduction," "Death of Tippoo Saib," and "Village School." Mr. Burnet also engraved plates from several recent painters, from the Rembrandts in the national gallery, and from several of his own paintings. He has written several illustrated works and manuals for artists.

BURNET, THOMAS, an English writer, born at Croft, in Yorkshire, about 1635, died at the charterhouse, London, Sept. 7, 1715. As master of the charterhouse school, he was the first Englishman to beard James II. in his arrogation of the dispensing power. By the constitution of the charterhouse the pensioners must take certain oaths of allegiance and supremacy. James sent down a candidate, Andrew Popham, for election to the charity, accompanying his mandate with a dispensation from the usual oaths, Popham being a Roman Catholic. The candidate was introduced by Chancellor Jeffries, one of the governors. Burnet at once denied the king's dispensing power, and refused to receive Popham. In this he was supported by the duke of Ormond of Street by the duke of Ormond o Jeffries stormed patron the duke of Ormond. and blustered, but the candidate was rejected. After the revolution Burnet was made clerk of the closet to William III. on the recommendation of Archbishop Tillotson, whose pupil he had formerly been. He lost the court favor, and his hopes of preferment, by an essay in which he treated the Mosaic account of the fall as allegorical. His principal works were written in Latin, of which the "Sacred Theory of the Earth," once had a high reputation for erudition and imaginative power.

BURNET'S CREEK, a tributary of the Wabash, in the state of Indiana. It is near the scene of the battle of Tippecanoe, fought in Nov. 9, 1811.

BURNETT, JOHN, an English dissenting minister, born in Perth, Scotland, in 1790. He was apprenticed to the craft of shoemaking, which he abandoned before he had completed his apprenticeship, enlisting as a private soldier in an infantry regiment. Here he devoted his leisure to study during several years, and then occasionally preached to a small Independent congregation in Glasgow. His sermons attracted so much attention that crowds went to hear them, and a sufficient sum was subscribed to purchase his discharge from the army. He was placed in pastoral charge at Glasgow, where he continued for several years. About 1824 he accepted charge of a church in Cork, where his popularity increased. In 1827, when visiting London, he was drawn into a public discussion, which lasted several days, before fashionable audiences in the Argyle rooms, with Mr. Joseph O'Leary, a Catholic gentleman, also from Cork, respecting the tenets of the church of Rome. He received a call from an Independent congregation at Camberwell, in charge of which he still continues.

BURNETT, WALDO IRVING, M. D., an American naturalist and microscopist, born in South-borough, Mass., July 12, 1828, died in Boston, July 1, 1854. He inherited his love of nature from his father, and in early boyhood began his study of entomology, which he continued

through life. Unwilling to subject his to any unnecessary expenses, he gave advantages of a collegiate education; p of great mental activity, he easily mast usual branches of knowledge, and w cially proficient in mathematics; at period he made himself familiar w French, German, and Spanish language father was a physician, and under his g he commenced the study of medicine, ated in 1849, and soon after visited where his attention was given alm clusively to natural history and microsc servation. Pulmonary consumption not its course, and the remainder of his l spent in changing from place to place, gate, if possible, his disease. During the years of this unsettled life, he accompli almost incredible amount of intellectus the results of which may be found in the ceedings" and "Journal of the Boston of Natural History," in the "Memoirs American Academy of Arts and Science the "American Journal of Science" "Transactions of the American sociation for 1853," and in the Journal of Medical Science." number of minor articles, work of his life was the "Prize] lished by the medical association, on Cell, its Physiology, Pathol and ophy, as deduced from O tions; to which is added 145 Criticism." He was engaged, to his brief career, in translating from the "Comparative Anatomy of and Stannius."

BURNEY, Dr. CHARLES, an English h of music, born at Shrewsbury, April died in London, April 15, 1815. At the 18 he came under the tuition of Dr. with whom he studied for 8 years in I In 1749 he was appointed organist of a in Fenchurch street, and in the same ve duced at Drury lane 8 musical dramas, Hood," "Alfred," and "Queen Mah." next 9 years he lived at the town or Regis, in Norfolk, fulfilling the duties of ist, on a salary of £100, and compiliterials for his "History of Music." In 1 returned to London, where he brough number of instrumental compositi adaptation of Jean Jacques Rousseau s of Le devin du village. One of his most a works was an elaborate anthem, perfthe occasion of receiving his degree of music at Oxford in 1769. In the 1 year, with a view of obtaining further 1 for his "History of Music," he visited the pal cities of France and Italy, and in 17 lished the result of his ob va ume entitled "The Present France and Italy," which L. Johnson the model of his "Tour to the F In the succeeding year Dr. Burnev similar tour through Germany and

and published the result in 2 volable 1st volume of his "History of appeared in 1776, the 2d in 1782, and and 4th in 1789, the whole having oc30 years in meditation, and over 20 in and printing. Dr. Burney's remaining re a notice of young Crotch, afterward hed as a musician; a life of Metalthe musical articles in Rees's "Cya" He was twice married, and had y of 8 children, of whom the eldest a sensation in London in her youth by markable performances on the harpsi-His 2d daughter was Madame D'Arenovelist.—Charles, D.D., 2d son of ceding, and a man of great learning, Lynn, in Norfolk, England, in 1757, 1817. He contributed to the "Monthly" many articles on classical literature. Ints of his literary labors were mostly d in the formation of a library, which chased by the nation after his death, forms part of the library of the Brit-

NEY, FRANCES. See ARBLAY, MADAME D'. NING FLUID, a mixture of alcohol and ne (the pure oil or spirits of turpentine), ith varying proportions of the ingreand called by various names, as well segmeral name of burning fluid. The f the mixture is to produce an illumigent, in which the feeble blue light of a hydrogenous alcohol shall be bright-the larger proportion of carbon intro-the carbo-hydrogen, camphene. This, d alone, is apt to give a sooty flame excess of carbon. (See CAMPHENE,) ing them, any desirable proportion of

ing them, any desirable proportion of hydrogen is obtained, and the flame , ...om their combustion is clear, yelred, and exceedingly agreeable. The lso is clean in use, and free from the able qualities of the oils, so that it has highly popular in common use for a spite of the terrible accidents which y day occurring in consequence of the xplosive nature of its vapor. This inapor, as it escapes from the surface of , may be ignited by coming in contact flame of a lamp, or even with the red-e of a stove. The effect is like that a by carrying a light into a room in has collected from a leak of the gasae flame is instantly communicated the air to the vessel containing the d this being scattered about every thing is enveloped in fire. Burning fluid is a to be a more dangerous substance to a house than gunpowder; for the latter io subtle vapor, that may be stealing me air to explode on meeting a spark the contrary, some highly heated brought into actual contact with solid body to produce an explosion. nding this, and the palpable fact have been daily sacrificed for years

past, and still continue to be, in using this substance, no restrictions have been imposed by legislative bodies upon its free employment, and the sale of it to be introduced into families entirely ignorant of its dangerous qualities. And what, perhaps, is still more strange, those who are informed of its character, and know of the sad effects constantly resulting from its use, and who would look with horror upon a can of gunpower kept in their houses, do not hesitate to introduce this into their families, to be daily handled by servants and children, careless and unconscious of its qualities. It is true that numerous ingenious devices have been contrived by which the risks of explosion are Modifications of Sir Humphry diminished. Davy's safety lamp have been invented, which testify by their very precautions to the enormity of the danger they are designed to guard against. Even the cans which contain the fluid that generates the explosive vapor are fortified like the lamps that burn it, and many feel secure and justified in continuing to employ the article thus protected. The ingenious lamp of Mr. Newell of Boston is constructed with a fixed cylinder of fine wire gauze, extending to the bottom of the cavity for the fluid. gauze has 500 holes to the inch. A tube made of the same kind of gauze incloses the wick, and is secured by screwing into the top of the cylinder within which it is contained. disk on the top of the wick tube is perforated with a number of small holes, to establish a communication between the external air and the cavity within the lamp. These are to allow of the escape of the vapor, if any should be suddenly produced on the surface of the fluid, which, if confined, might cause the lamp to burst. The can is provided with a gauze diaphragm in the spout and another under the lid. In case of accidental ignition while filling the lamp, the combustion cannot extend beyond the gauze; but if the gauze happen to meet with any injury, this may be entirely unsuspected, and the contrivance is then worse than useless. The lamp, too, if of glass, is liable to be broken by a fall or otherwise, and thus create an explosion. Where the lamps are indispensable, as in working coal mines, the atmosphere of which is liable at any moment to be filled with fire damp, such protections, imperfect as they must be, cannot be too highly prized; but when used only for the more agreeable light they give, or for an imaginary economy, they may be admired for their ingenuity, while we may lament this was not directed to meet the root of the evil, and provide a harmless substitute for the fluid itself. would seem that this ought to be obtained in benzole or some similar substance. An exceedingly ingenious improvement upon Newell's lamp has been invented by Mr. Solomon Andrews, of New York. This lamp is so contrived, that if thrown down and broken, the flame is extinguished before the vapor can reach it. A metallic tube passes from the burner down to the bottom of the fluid in the

lamp, and in this tube is what may be called a wick of silver wires, which serves the double purpose of conveying heat down the tube to volatilize a portion of the fluid, and also to raise the fluid up by capillary action toward the burner, near which it is, by the heat, converted into vapor, and thus passes through the burner like common gas. The burner is first heated by applying a flame to it, and the gas being once ignited, it continues to furnish, by its combustion, sufficient heat to keep up the supply. The lamp cannot be refilled without unscrewing the burner, which extinguishes the flame, and thus prevents an explosion from this common cause. By such ingenious contrivances the use of the material is probably rendered as nearly safe as its nature admits.

BURNING GLASS AND BURNING MIR-ROR, instruments to concentrate the sun's heat. The usual burning glass is simply a double convex lens, which brings the rays of solar heat to a focus at nearly the same point at which it brings the rays of light. Artificial heat cannot, in general, be brought to a focus by a glass lens; but a lens of rock salt will bring heat radiating from any source to a focus. The use of burning glasses, or burning crystal, is alluded to by Aristophanes, and several writers declare that Archimedes fired the Roman ships by means of burning mirrors. In the 17th and 18th centuries many experiments were made with burning glasses of immense size. Tschirnhausen made several, some of which are still at Paris, 33 inches in diameter. In 1774 Lavoisier and Brisson superintended the making of a lens 4 feet in diameter, of 2 glasses like watch crystals, with various fluids between. This is called Trudaine's lens, from the gentleman who bore the expense. About the year 1800, a Mr. Parker of London made a lens 3 feet in diameter, which is now at Pekin. The heat from these large lenses is intense, and capable of melting any stone or mineral in a few seconds. Equal effects may be obtained from mirrors. Heat is reflected like light, and a concave mirror brings both to a focus. About 1670 a M. Vilette of Lyons constructed several mirrors of polished metal, from 30 to 50 inches in diameter. Tschirnhausen made one of copper nearly 5 feet in diameter. Buffon (who was the first to suggest a lens made of several pieces, afterward brought to perfection by Fresnel, and of great use in lighthouses) made a large reflector of several hundred smaller ones, each 6 inches by 8. With this he set fire to wood at the distance of 210 feet, proving the possibility, though not the probability, of Archimedes having thus burned the Roman fleet. Within a few years, it having been shown that the sun's rays have a heating power partly proportioned to the heat of the place into which they shine, the galvanic flame of a large battery has been made to play through the focus of a large burning glass, and thus the most intense heat ever witnessed has been produced, beyond all reasonable comparison with those temperatures that can be measured by degrees, these experiments the most blinding I companies the heat, which renders it so difficult to observe the effects. Profit in the companies of the companies o

BURNISHING, the last finish giver tallic articles, which consists in polimeans of blunt instruments of steel, agiper, or a dog's tooth, rubbed over their vessels of round shape are turned in and the burnishers are then convenie plied to them; when of unsuitable for thus polished, the work is done by and is very rapidly accomplished by a rienced workman, the tool quickly enter the numerous interstices, and cleaning face of the metal of the slight film, of in tible thickness, which obscures its bright

BURNOUF, Euchne, a French or born in Paris, Aug. 12, 1801, died there 1852. Shortly before his death he was ap perpetual secretary of the academy of tions, of which he had been a member His principal work, Introduction à l. a Boudhisme, founded on the researches B. H. Hodgson, was completed in 1844.

BURNS, ROBERT, the great national Scotland, born Jan. 25, 1759, died 1796. A clay-built cottage, 2 miles sout town of Ayr, and in the vicinity of the Alloway and the "auld brig o' Doo his birthplace. His parents were peat the poorest class, but honest, diligent, spectable. They were eager for the inc intellectual improvement of their offspri lost no opportunity for supplying them rudiments of education. Robert, in the of driving the plough, and other fa soon made himself a master of Engi chief reading books were the Bible. Collection of Prose and Verse, the "L nibal," and the history of Sir William Later in life he attempted to learn Free Latin, without much success; but wl "Spectator," Shakespeare, Pope, and part the poems of Allan Ramsay, were put hands, he devoured them with avidit first attempt in verse, after the family moved to Lochlea, was made toward I year. "A bonnie, sweet, sonsie lass," as in a letter to Moore, "who was coupled win the labors of the hay-harvest," aw early inspiration; and thus he began, as tinued, his literary career in poetry and Robert and his brother Gilbert were by their father, as regular day-laborers annum, until Robert's 19th year, wl to the school of Kirkoswald, to ration and surveying. As it was but smuggling coast, he fell in tl e wi characters of the contraband L larged his knowledge of hun

e his manners. During this time he had printed the "Dirge of Winter," of Poor Maillie," "Maillie's Elegy," Barleycorn," in which he discovered ountain of pathos and humor which rendered him famous. In 1781-'2 he Irvine to learn the trade of flaxwhich, however, he did not make ress, while he fell in with a kind of at all advantageous to his morals. rays been an admirer of women, and irse with them was of the most irrekind, until at Irvine he was furthe subject of the "Epistle to John or which offence, according to the Scotland, he was compelled to do church, before the congregation. It ar from the two poems written on the on, "The Poet's Welcome," &c., and ing dog, the daddy o't," that the gloried in his shame than repented short time before the death of his , whose thickening misfortunes cast ver the whole family, he and his

a farm at Mossgiel, with a view of ilter for their parents; but a life of st labor and severest economy was le to keep their heads above water. st of his distresses, he did not neglect and several satirical pieces, such as Tailzie," not contained in the comof his works, "Holy Willie's Pray-Ordination," the "Holy Fair," and fly levelled at the churchmen, won local reputation. But he showed able of better things than these, and dence at Mossgiel are to be referred o a "Mouse," to a "Mountain Daisy," made to mourn," and that sweetest s, the "Cotter's Saturday Night;" imerable love songs, some of them he language, none of which, he says, maginary heroines. His want of suca put him upon the project of going

m the West Indies, and in order to to a part of the expenses, he propolish a collection of his writings. It love-connection, which he desired mate by marriage, contributed, no se formation of this resolve. Accordent autumn of 1786, he issued 600 copies ms at Kilmarnock, from which he istance enough (£20) to enable him a passage in a ship about to sail from the was then "skulking from covert as he says, "to hide from the merof the law," which the relatives of this children set upon his heels. The same that the same

"The gloomy night is gathering and of farewell to Scotland, when a 1 Dr. Blacklock to a friend of his 10 execution of his purpose. This nended a visit to Edinburgh, with a coive the applause which his poems d, and to arrange for the issue of a

new edition. Burns went to the metropolis. and for more than a year was admired, caressed, feted, and flattered, by persons of all ranks, and particularly by those of eminence and influence, as few men before him ever had been. He retired to his home with the sum of £500 in his pocket, the result of the new publication. Nearly the half of this he gave to his brother, for the farm at Mossgiel, and the residue he applied to stocking a new farm for himself, at Ellisland in Dumfriesshire. There, in 1788, he married Jane Armour, with whom he had previously formed a union. At the same time he became an officer of excise in the district in which he lived, and between his farm, his office, and an occasional poem, he managed to eke out a poverty-stricken and miserable existence. His salary was £50 a year, afterward increased to £70; but the duties of the place, together with his convivial habits, interfered so much with the labors of the farm, that the latter yielded him little or nothing, and he was compelled to surrender it to the landlord. A hand-tohand grapple with poverty and care was thence-forth his gloomy fate. Toward the close of the year 1791, he retired to a small house in the town of Dumfries, where he supported himself and his family on his official stipend, and by random contributions to Johnson's "Museum, and Thomson's "Collection of Original Scottish Airs." But his habits of intoxication, ill health, and disappointment as to his prospects of promotion, soon undermined his constitution, and in his 37th year he died. During his illness, in which he comported himself with a manly and noble resignation, his good humor never deserting him in the darkest hours, it is said that his humble home was like a place be-sieged. The anxiety in regard to him, not of the mechanics and peasants only, but of the rich and learned, exceeds all belief. ever two or three persons met in the streets, their talk was of Burns, and of him alone. They spoke of his history, of his works, of his person, of his poems, and of his untimely and approaching fate; but all this was a sympathy which came too late. His funeral was a public one, attended by vast multitudes, from all parts of the country. During the excitement, there was some talk of raising a monument to his memory, but the purpose was not fulfilled till the year 1813. He left 4 sons, 2 of whom entered the East India company's service; and 2 of them are now dead.—The poetry of Burns will live forever, because it sprung directly out of the human heart, to the deepest and noblest emotions of which it appeals. Without evidences of culture, without that grand or powerful imagination which makes a Shakespeare or a Milton, aspiring only to the humblest flights of poetic art, it is yet so profoundly fraught with passion, so instinct with melody, so true to nature, so artless in its grace, that every bosom capable of feeling must be touched either by its pathos, its beauty, or its mirth. He had "an inspiration for every fancy, a music for every

mood." In the simple, the naïve, the sweet, he is scarcely more distinguished than he is in the grotesque, the wild, and even the terrible. His "Tam O'Shanter" displays a narrative ability of the first order, while his "Jolly Beggars" is filled with dramatic power. But his peculiar strength was the lyrical, and his songs, infinite in number as they are matchless in emotional gush and tenderness, will be the delight of the human heart so long as the warm blood rushes through it, or the tongue is able to articulate. The American poet Halleck has done the amplest justice to the genius of Burns of any of his kindred, and but recchoes the universal judgment of criticism, when he says:

> There have been loftler themes than his, And longer scrolls, and louder lyres, And lays lit up with poesy's Purer and holier fires; Yet read the names that know not death, Few nobler ones than Burns are there, And few have won a greener wreath Than that which binds his hair.

As a man, Burns was generous to a fault; independent and scorning meanness; exquisitely entertaining in conversation; and, though at times wild and reckless, with a deep and mighty undercurrent of religious feeling in his soul.—Robert, son of the foregoing, born at Mauchline, county of Ayr, Scotland, in Sept. 1786, died in Dumfries, May 14, 1857. He was an accomplished scholar, an enthusiastic student of the

Gaelic language, a proficient in music, and of some poetical ability.

BURNS AND SCALDS. Burns are produced by heated solids, or by the flames of some combustible substance, solid, liquid, or gaseous; scalds are produced by heated steam or liquid. The worst burns which occur commonly arise from the explosion of gunpowder or inflammable gases, or from the dresses of children or of females catching fire; the worst scalds, from accidents in breweries, manufactories, lab-oratories, and steamboats. The severity of the accident depends mainly on the intensity of the heat of the burning body, together with the extent of surface and the vitality of the parts involved in the injury. The immediate effect of scalds is generally less violent than that of burns. Fluids, not being capable of acquiring so high a degree of temperature as some solids, cannot act with the same violence on a given point; but, flowing about with great facility, their effects often become more serious by extending to a very large surface of the body. A burn which utterly and instantaneously destroys the part it touches may be free from descent be free from dangerous complications if the injured part be circumscribed within a small compass; while a scald apparently much less severe in its immediate effects, being more or less diffused, is always attended with different degrees of injury in different parts of its course, and may be very serious in its results, although apparently less violent in its first effects on any given part. The extent of the surface involved, the depth of the injury, the vitality and the

sensibility of the parts weighed in estimati LIG BOYdanger of an accident in any given or scald. In ordinary burns and a immediate seat of injury is the skin or w nal surface, one of the most vital frame. The skin is a highly or brane, endowed with the most action in Burns and scalds, therefore, are more to in proportion to the amount of surface than in proportion to the depths att a limited extent, for the outer layer most highly organized and sensitive par cutaneous system. The outermost of : ever, being a mere coat of horny varnic least sensitive; and where the injurv and altogether superficial, though ext mischief is but trifling at first, and easily remedied, although unpleasant c tions may ensue if the superficial neglected, and the parts beneath are posed to the action of the air, whic irritation, pain, and inflammation. ological obstruction long continued, shock to the whole nervous system, be than the vital forces of the org withstand, no treatment can previtermination to the sufferings of the p cases of excessively severe burns and but the worst cases might often be av a little knowledge and self-possession part of the sufferer at the time of the and a fatal contingency be transform temporary injury. Everybody shoul fore, have some knowledge of the be to pursue in case of such an accident h either to themselves or to others near the time.-Where the body is enve flames, from the clothes being on fire, thing to be done is to lie down on the roll the carpet or a rug, or any cloth or closely round the body, so as to exclu from the burning dress, and thus put flame. Or, lie down at once and roll over the burning clothes, calling to a near to throw a blanket or a cloth of wet or dry, or water, over you on the floor, stifling the burning catween your body and the ground. the clothes of a child or a grown per you should take fire, pursue the same The upright position is the worst, bel able to the spread of the flames, and them to reach the upper and most vita of the body, trunk, head, face, and nec causes children to run screaming to a help, and this increases the curr rounding air, and helps the more rapidly. The body should be q veloped closely, in a wet or a dry gr a blanket, a curtain, or table cloth thing which may be at hand; the being to extinguish the flames by out the air, which gives them life, an which they cannot be. There is no the operation, because the

and the air is shut out, the fire is the boldest and most rapid action ne best, the most prudent, and to all the parties concerned. the child rapidly and closely and rolling slowly on the floor ping the flaming part with any r own dress, will stifle out the ogether. Presence of mind alone rery case, and under all condi-thing to be done at first is to by shutting out the air. Wrapdy in any thing, and lying on the wo things to be first thought of. cident has happened, the burned s should be immersed at once in enveloped in wet cloths, or in in flour, bran, or oiled calico, or h is convenient to keep out the njured surface of the skin. Imd water is the best, where it is cause it not only shuts off the a rapid rush of temperature from ues to the cold water, analogous rush of heat from the burning or m to the skin in the first instance, opposite direction; and this insoothes the nerves of sense, and ie first requirement by diminishto the whole system from inin.—Some persons recommend ons of brandy or spirits of wine, 1e, or vinegar, kept on the inmeans of lint, cotton, or old 1 the liquid; others prefer soap 1 or without creosote; and much pinion exists with regard to the An oil-skin, a soapy film, a coat ient, or of cotton-wool, or flour, hich will exclude the air and not red parts, will serve the purpose all the theories about peculiar 1 in the various stimulating subre or less, it would appear, imato the simple fact of keeping out 1 the pain has been arrested by cold water, a delicate soap-anda the injured parts, surrounded or a layer of cotton-wool, and fully, to keep the application in all that is required in ordinary and scalds, until medical assisted to treat the constitutional disake charge of the patient.

LAND, commonly pronounced parliamentary borough, seaport sh of Scotland, on the frith of wn is clean, well built, and has r on the frith, a lighthouse, and is the steamboat ferry station of the Edinburgh and northern inhabitants are chiefly occupied d in the fisheries.

r, John, one of the earliest society of Friends, born at Crabperland, in 1631, died in Dublin, July 11, 1690. He travelled in England and Ireland, and in 1672 he came with George Fox to America. In his "Memorials" much may be gathered of the actual condition of Maryland and other colonies, through which he passed from New England to North Carolina. He was a zealous advocate of the creed of the society of Friends, and bravely bore the many persecutions to which he was subjected.

BURR

BURR, AABON, an American politician, and 3d vice-president of the United States, born at Newark, N. J., Feb. 6, 1756, died on Staten Island, Sept. 14, 1836. He was of German extraction, and the son of the Rev. Aaron Burr; his mother was a daughter of Jonathan Edwards, the eminent theologian. Before he was 8 years old his parents died, leaving him a considerable estate. He entered the sophomore class of Princeton college in 1769, and graduated in 1772. At the outbreak of the revolution, Burr enlisted as a private, and joined the force before Boston. He volunteered for the expedition against Canada, and accompanied Arnold upon his toil-some march through Maine. He took part in the attack upon Quebec, and is said to have stood beside Gen. Montgomery when he was killed. For his conduct in the Canadian campaign, Burr was raised to the rank of major, and invited to join the family of Gen. Washington. Some event soon occurred, the precise character of which is not known, which compelled Burr to leave head-quarters, and produced in the mind of Washington an impression against him which was never removed. As aide-de-camp to Gen. Putnam, Burr was engaged in the defence of New York, and shortly after (1777) was promoted to a lieutenant-colonelcy, with the command of his regiment, the colonel being a civilian. He was in the camp at Valley Forge, and distinguished himself at the battle of Monmouth, where he commanded a brigade in Lord Stirling's division. During the winter of 1778 and 1779 he was stationed upon the lines in Westchester county, N. Y.; early in the following spring he resigned his commission. He was led to take this step partly by ill health, but still more, it is supposed, by disappointment at not being more rapidly promoted. Burr belonged to the Lee and Gates faction; he always affected to despise the military talents of Gen. Washington; and it is not improbable that these circumstances interfered with his professional career. In 1782 Burr was admitted to the bar at Albany, and in July of the same year he married Mrs. Provost, the widow of a British officer who had died in the West Indies. In 1788 he entered upon the practice of his profession in the city of New York, and soon obtained a lucrative business.—In politics, Burr's success was rapid and brilliant. In 1784 he was elected to the state legislature; he was appointed attorney-general of New York in 1789, and United States senator in 1791. While in the United States senator in 1791. senate, several influential members of congress recommended him for the mission to France but Washington, with marked emphasis, refused

to appoint a man of Burr's character to so important a post. He left the senate in 1797, and the following year was returned to the state legislature. Some aspersions upon his conduct while in that body, which were thrown out by John B. Church, led to a duel between Burr and that gentleman, in which, however, neither party was injured. Mr. Burr was very efficient in the presidential canvass of 1800. his efforts may be attributed the success of the republicans in New York, upon the action of which state the result in the Union depended. On account of the prominence he thus obtained, the friends of Mr. Jefferson brought him forward for the vice-presidency. An equal number of votes having been, by a sort of mischance, thrown for Jefferson and Burr in the electoral college, the election of a president devolved upon the house of representatives. Most of the federal members, taking advantage of the singular turn in affairs, supported Burr. The contest lasted several days. Upon the 36th ballot Jefferson was chosen president, and, in accordance with the provisions of the constitution at that time, Burr became vice-president. His conduct in permitting himself to be used by his political opponents, in order to defeat the candidate of his party, and whom he himself had support-ed, dissolved his connection with the republicans, and destroyed his political influence. The federalists nominated him for governor of New York in 1804. Some of the leading men of that party refused to support him, and he was defeated. The contest was bitter, and led to a duel between Burr and Col. Hamilton, in which the latter was killed. This unfortunate event occurred July 11, 1804. Burr was compelled to give up his residence in New York. After his retirement from the vice-presidency, in April, 1805, he made a journey to the southwest. His conduct gave rise to the suspicion that he was organizing an expedition to invade Mexico, with the purpose of establishing an empire there which should embrace some of the south-western states of this confederacy. He was arrested in Mississippi, and taken to Richmond, Va., for trial, upon an indictment for treason. After a protracted investigation before Chief Justice Marshall, under a ruling of the court upon a point of law, which did not touch the merits of the case, the prosecution was abandoned, and Burr was acquitted, Sept. 1807. In 1808 he went to Europe, expecting to get means to carry out his Mexican design. He was disappointed; and after living abroad 4 years, part of the time in extreme poverty, he returned to America in 1812. He resumed his profession in New York, but never regained his former position at the bar, and died in the 81st year of his age. Mr. Burr had but one child, the accomplished Theodosia Allston, who was lost at sea, Jan. 1813. In person he was below the medium height, but his manners and presence were very attractive. His chief power consisted in his skill in enlisting the good will and sympathy of those with whom he came into

contact. To this he mainly owed 1 influence. He was always surrounded t circle of attached and obedient friends. notorious for his gallantries, and pres the letters which were written in the his numerous amours. It is a strange a of character, that in extreme old age is greatest pleasure to read these records (ful intrigue and passion. He was ten his reputation as a soldier. It is not that he was correct in the opinion v was accustomed to express, that hi were best adapted to a military career. an adroit, persevering, but not a great He cannot, in any sense, be said to h an orator; yet he was an effective as speaker. It has been usual to regard brilliant, and even a great man, who astray by moral obliquity. In regar looseness of his principles, there ca doubt; but there is as little reason to de his talents have been greatly exagger memoir of the life and times of Burr, t Parton, was published in New York in

BURRAMPOOR, a town of Britis presidency of Madras, province of the ! Circars, and 20 miles S. W. of Ganj estimated at 20,000. It is sometimes c ed with the town of Berhampoor in Situated a few miles from the weste of the bay of Bengal, in a cultivated p in by lofty hills, and abounding in | springs, it is a favorite resort for the ment officials of Ganjam during the u months of the wet season. The west October to February is clear, cool, and the thermometer ranging from 50° to April and May, fevers and rheumatism in June the S. W. monsoon commenc succeeded by the N. E. in September. T the vicinity of the town is dry and streets resemble those of most Inuia being narrow, dirty, and lined with be mud houses. There are a few brick l however, a multitude of Hindoo te numerous well-stocked bazaars. Si candy are manufactured in large quant silk and cotton are produced to some Near the town is a military canton was occupied at the period of the 1857 by a regiment of native riflemen mained true to their allegiance.

BURRAMPOOTER. See Brahmap BURRILL, James, an American sem in Providence, R. I., April 25, 1772, die 1820. He graduated at Rhode Islam now Brown university, in 1788, and st with Theodore Foster and David How afterward senators in congress. In 1791 the practice of the law. In 1797 he v attorney-general, and held the office years, until 1813, when the state of t compelled him to resign the office and of the Rhode Island house of represend in 1816 chief justice of the state.

o employ all legitimate means for of war throughout the world." antly engaged in writing and lecook a prominent part in all the ce congresses. He returned to 353. The promotion of temperocean postage, and the abolition slavery, have been objects of his rtions. Among his recent public s one that the national governsh slavery in the southern states and freeing the slaves. His prinons have been "Sparks from the cland, in 1848, and "Thoughts and ne and Abroad," Boston, 1854.

HS, George, a minister of New cuted for witchcraft at Salem, 19, 1692. He was graduated at

ege, in 1670, was a preacher at

w Portland, Me., in 1676, and

380. In consequence of some dispeople, he returned to Portland

entered into relations with a gang of counterfeiters, and while still occasionally preaching was arrested in Springfield for passing counterfeit money. Being convicted, he was removed to Northampton for imprisonment, where he suffered almost constantly the pains of hunger, and for his numerous attempts to escape was loaded with chains. In extreme impatience of confinement, he sought to end his sufferings by firing the gaol, and he speaks of the tranquil horror with which he saw the flames bursting forth about him. He was afterward removed for imprisonment to Castle island in Boston harbor, whence he effected his escape with 7 other prisoners, but was retaken through the stupidity of his associates. Released at length from prison life, he repaired to Canada, where for many years he was at the head of an association of counterfeiters, and kept the deposit of the bills. In the latter part of his life he thoroughly changed his conduct, entered the communion of the Roman Catholic church, and passed his last

and educating at his r

years in receivi

cellor, as second in command, in his voyage to discover a north-east passage in 1553. Three years later he had chief command of another expedition, equipped with the same object. He doubled Cape North, touched at Nova Zembla, discovered the island Waigatz, and reached lat. 70° 80' N., a higher point than had before been reached by any navigator. He then turned to the east, designing to explore the river Obi; but the ice, the length of the nights, and the severe cold, obliged him to give up his purpose. He returned to England, and published an account of his observations. He was the first who observed the gradual declination of the magnetic needle.

BURROWS, WILLIAM, a lieutenant in the U. S. navy, entered the service in Jan. 1800, and though a man of great eccentricity of character, was always distinguished for his gallantry and high bearing as an officer. On Sept. 14, 1813, while in command of the Enterprise brig of 14 18-pound carronades, he fell in with, and captured, off Portland, Me., II. B. M. brig Boxer, of 12 guns, after a most gallant action. An awkward circumstance occurred to the enemy on this occasion. After he had hailed to say that he had surrendered, he added that his colors could not be struck until the Enterprise ceased her fire, as they were "nailed aloft." Both commanders were killed in this action. The Enterprise took her prize into Portland, where these 2 gallant officers were buried side by side with the honors of war. Lieut. Burrows fell at the age of 30.

BURSCHENSCHAFTEN (from Bursche, a youth, a student), German students' secret associations, founded in 1815 by that portion of the students of Jena who had taken a part in the German war of independence. The object of the association was to regulate the social habits of the students, and to foster a spirit of nationality. Tübingen, Heidelberg, Halle, and Giessen followed the example in 1816-'17. German war of independence, which had principally brought about this fermentation among the students, not having produced those political reforms which they had anticipated, the students or Burschen of Jena resolved to convoke a general Burschenschaft, the object of which should be to connect the scattered associations into one national band of brotherhood, by the annual election of a presiding committee. On Oct. 18, 1817, representatives of almost all German universities met accordingly at the Wartburg festival, and in Oct. 1818, the members of 14 universities again assembled, and adopted a constitution, to which all the universities gave their assent in April, 1819, with the exception of Göttingen, Landshut, and those of Austria. Among the members of the Jena Burschenschaft was the student Sand, who had taken a prominent part in the convocation of the students at the Wartburg. When the dramatist Kotzebue was assassinated by Sand, on account of his opposition to the Burschenschaften, the German princes became alarmed,

and on Sept. 20, 1819, a conference t at Carlsbad, which decreed the support the associations. The students, howev fled the designs of the govern only change which the interdiction was to make the Burschenschaften r secret instead of in public as before, secrecy, far from hindering their obje tended to forward it. In 1827 the project of a German national Bursche was taken up again, but internal dis defeated the success of the plan. Two formed themselves, the Germanen, wh practical politicians and determined ref and the Arminen, composed of more k triots, who saw not so much good in political changes, as in the general devel of national power by perfecting their ovidual moral and mental nature. In Bamberg, and in Sept. 1831, at Frankf 2 conflicting parties came together, 1 Arminen, although in a numerical succumbed to the more energetic Ger At a general meeting which took place bingen, Dec. 25, 1832, a revolution was resolved upon, and the students were all to stand by the national German Bursel which had taken up its head-quarters at fort-on-the-Main. This declaration was f by the revolutionary attempt at Frank June, 1833, in which 1,867 students were cated, and which led to the arrest of stu over Germany. Although the police n for the suppression of the secret politic ties have since been stringent, the schaften exist to this day, though under During the revolution of 18 names. only students who became implicated, he to be those of Vienna, who had never joined the Burschenschaften.

BURSLEM, a parish and market t Staffordshire, England. It is the p town in the important district called "I teries," on the Birmingham and Liverp way, and contains a number of large fi dwelling-houses, villas, churches, and public buildings. Even in the 17th ce was the chief place in England for the tion of earthenwares, at first of a rude an ly kind, but afterward brought to great tion by Josiah Wedgewood, who was Burslem in 1730. Pop. in 1851, 15,934

BURTON, Asa, an American divine, Preston, now Griswold, Conn., in 1752, Thetford, Vt., April 23, 1836. He gr at Dartmouth college in 1777, and was at Thetford in 1779 over a church of 1 bers, to which during the more than 1 tury of his pastorate there were admit members. In theology he maintained w termed the taste scheme, in opposition to ercise scheme of Emmons. He pub volume of essays, and several serme discourses.

BURTON, John Hill, a Scottish auth in 1807, assisted Dr. (now Sir John) l

ing the collective edition of Jeremy sworks, particularly supplying the "In"In He subsequently published the I Correspondence of David Hume;"
addressed to David Hume by Emions;" "Political and Social Econolarratives from Criminal Trials in
" "History of Scotland, from the
to the Extinction of the Jacobite
m," (1688 to 1748), &c. In 1854 he
ed secretary to the prison board of

N, Robert, an English divine and orn at Lindley, in Leicestershire, 76, died in Oxford, Jan. 25, 1640, time which, having cast his own nahad himself predicted. His family ent and wealthy. In 1593 he went iversity of Oxford, and was elected 'Christchurch in 1596. Anthony Anthony ed that "for form's sake, though he t a tutor," he was put under the tui-Bancroft. Having taken orders, he college living, and in 1628 was pre-Lord Berkeley to the rectory of Se-Leicestershire. He composed the r of Melancholy" in order, it is said, his own mind from mournful reflecook went through 5 editions in its and has repeatedly been re-Sterne seems to have used it a commonplace book. Archbishop scribes it as "the pleasantest, the most nd the most full of sterling sense" oks, adding that the wits of the reigns nd the first George were deeply init. Dr. Johnson said it was the only ever took him out of bed two hours n he wished to rise. Warton, Ferteevens strongly enlogized it. Byron the most amusing and instructive quotations and classical anecdotes I ed. If the reader has patience to go is volumes, he will be more improved r conversation than by the perusal of y other works with which I am ac-This curious and recondite book shed in 1621. Mr. Burton left his

what the subject, published in his also left £100 to each library to pur-He was addicted to astrology.

IN, WILLIAM EVANS, an English cond author, resident in America since in London, in 1804. Intended for 1, he received a classical education, but of 18 assumed the direction of his

e divided between the Bodleian and

church library. The collection, which

is said to have comprised every book,

rinting office, and edited a monthly His success as an amateur performer become an actor, and after several xperience in the Norwich circuit, he with success at the Haymarket in wrote several dramatic pieces, one of Ellen Wareham," was played at 5

theatres in London on the same evening. Since coming to America he has been the lessee of theatres in the chief Atlantic cities, but has resided principally in Philadelphia and New York. In Philadelphia he erected, at his own cost, the national theatre, and started in 1837 the "Gentleman's Magazine." He was proprietor of the opera-house in New York, when it was burned in 1841. In 1847 he purchased Palmo's operahouse in Chambers street, where he managed dramatic performances with popular favor for nearly 10 years. In 1856 he purchased the Metropolitan theatre on Broadway, to which his name is now attached. As an actor he excels in a wide range of eccentric and comic parts. The comedy of the "Serious Family," in which he impersonates the character of Aminadab Sleek, after having been played nightly for one whole season, is often revived by him. Of many of the humorous characters in Shakespeare he has made felicitous delineations, and he possesses a very full Shakespearian library. He edited for several years the "Literary Souvenir," and compiled in 1858 a "Cyclopædia of Wit

and Humor," 2 vols. royal 8vo.

BURTON-UPON-TRENT, a market town of
Staffordshire, Eng., 22 miles E. of Stafford, in a parish of its own name, which lies partly in Staffordshire and partly in Derbyshire. Pop. in 1851, 7,934. It is situated in a pleasant vale on the left bank of the Trent, which is navigable to this point by barges, and is here crossed by a freestone bridge of 86 arches, supposed to have been built about the time of the conquest, and remarkable as one of the longest structures of the kind in England, being 1,545 feet in length. The streets are well paved, and lighted with gas. Good water is abundant. There are 8 handsome churches, chapels belonging to various dissenting congregations, a free grammar school for boys, founded by the abbot of Burton in 1520, and enjoying from endowment an income of about £400 per annum, several other schools, a library and newsroom, almshouses, a union workhouse, a dispensary, and a savings bank. Burton was formerly noted for alabaster works, but its chief production now is the excellent ale to which it gives its name, and which is consumed in large quantities in Europe, in America, and even in Asia. The other branches of industry are malting, tanning, rope making, iron forging, and the manufacture of cotton and hats. There are fairs 6 times a year, and a weekly market on Thursday. The Birmingham and Derby junction railway has a station half a mile W. of the town, and a branch of the Grand Trunk (or Trent and Mersey) canal joins the Trent about 1 mile below.—The abbey of Burton, some remains of which are yet visible, was founded about 1002 by an earl of Mercia, and subsequently received charters and privileges from the crown. Some of the abbots sat in parliament. Henry VIII., on the suppression of the monasteries, granted part of the possessions of this abbey, including the town and several hamlets, to an ancestor of the marquis of Anglesey, the present lord of the manor, who thence derives the right of appointing a high steward, deputy steward, and bailiff, for the government of the town. The bailiff acts as justice of the peace, head of police, and coroner, and has the general regulation of the town, except as to paving and lighting, which are managed by a board of commissioners. During the contest between Edward II. and his barons, in 1322, the insurgents, led by the earl of Lancaster, took possession of this place, and for 3 days defended the bridge against the royalists. The latter finally crossed by a ford, and Lancaster, having set fire to the town (March 10), retreated into Yorkshire.

BURTSCIIEID, or BORCETTE, a town of Rhenish Prussia, is almost a continuation of the city of Aix la Chapelle. It has 6,050 inhabitants, and contains several manufactories, beside some celebrated sulphur springs and baths, whose temperature is from 106° to 155° F.

BURWHA, a negro town in the kingdom of Bornoo, central Africa. It is situated on Lake Tchad, and covers an extent equal to 3 sq. m. Being defended by a wall 13 or 14 feet high, and surrounded by a dry ditch, it may be considered, with reference to the military practices of that country, a place of some strength. Pop.

5,000 or **6**,000.

BURY, a parish, parliamentary borough, and manufacturing town of England, county of Lancaster, between the Roche and the Irwell, 198 miles N. W. of London, by the north-western railway, and 8 miles N. W. of Manchester, with which city it communicates by railway and canal. Pop. of borough in 1851, 81,262. It is an ancient town, but its importance, as well as its neat appearance, is of modern date. Since 1846 the streets have been paved and widened, gas and water introduced, sewers constructed, and many handsome buildings erected. The principal edifices are the parish church, with a beautiful tower and spire, 3 other churches, several chapels, 3 newsrooms, a mechanics' institution, 3 libraries, a model barrack, and a savings bank. There are many excellent schools, including a free grammar-school, founded by the Rev. Roger Kay in 1776, and having an income from endowment of £430 per annum. It has 2 exhibitions of from £30 to £35 each, to the colleges of St. John's, Cambridge, and Brazen-nose, Oxford. The manufacture of woollen was a prominent branch of industry here in the reign of Edward III., but has now given way in great degree to that of cotton, which is extensively prosecuted in all its branches. Several important improvements in the manufacture originated here, and among others that of employing various colors in weaving one piece of cloth. The first Sir Robert Peel established his extensive print works on the Irwell, near this town; and at his residence, Chamber hall, in the immediate vicinity, his son, the celebrated statesman, was born. Bury

also contains several bleaching and dve tablishments, paper mills, lugwood mills, and iron founderies. It is gove the county magistrates, who hold persions twice a week. The Liverpool, I Wigan, and Bury, and the East La railways, pass through it. There are e coal mines in the vicinity.

BURY, HENRI BLAZE, baron de, al author and critic, born at Avignon, M 1818. He made his first literary vent a poem entitled Le souper ches le commu published in 1839 in the Revue des deuz s To that periodical he contributed for years upon political and social question wrote for it also many poems and critical upon Germany and its literature, some o under the pseudonym of Hans Werner. published a complete translation of Fa 1844, which has passed through nur editions. He soon after published an ess titled Ecrivains et postes d'Allemagne resided for several years in Germany, a intimate in the famous literary soc Weimar. He afterward travelled in It in 1850 published a political essay, Sur et l'Italie pendant les campagnes de Rad and he was the first to suggest a union or branches of the house of Bourbon.—Hi MARIE PAULINE ROSE STUART, of an a Scotch family, was educated in France, a written many tales and critical essays l English and French. Among th Essai sur Lord Byron, and the noves Vernon," and "Falkenberg."

BURY ST. EDMUND'S, a parliam municipal borough and market town or land, in the county of Suffolk, on the l miles N. W. of Ipswich, and 94 miles . London by railway, and 72 miles by road in 1851, 13,900. It is well built, with gas and water, and has clean, pave regular streets. It comprises 2 wards, i erned by a mayor, 6 aldermen, and 18 cillors, and is the seat of the county general, quarter, and petty sessions, and courts. Its public buildings and insti are numerous and interesting. handsome churches, one of which, built 1430, and remarkable for its beauti ed roof, contains a marble slab erecteu memory of Mary, queen of France, and ward duchess of Suffolk, daughter of Hen of England. Another of the churches belfry 80 feet high, which was originally a portal to the churchyard, and is regarded of the finest specimens of its class of t Norman architecture in existence. The Catholics, and various dissenting denomi have chapels. Schools are numerous, an of them of high repute. Among the lat a free grammar-school, founded by Edwa and having an income from endowment (than £600 a year, a commercial school boys, national schools, &c. Of nearly 1 houses and similar institutions in

rated is Clopton's hospital for decayed ers. A mechanica' institution, a lie-hall, guild-hall, theatre, concert and coms, the county gaol built on the rinciple, a house of correction, 2 hosa savings bank, are the other buildst note. Several fairs are held here; year; the principal one, which is most important in England, com-October and lasts 8 weeks—Bury St. or St. Edmund's Bury, as the old lit, is supposed to be the Roman Villa Its name comes from St. Edmund,

BUSAO

lit, is supposed to be the Roman Villa Its name comes from St. Edmund, nartyr, who received the manor from ter the dissolution of the heptarchy, e crowned king of East Anglia in 856. leath and canonization the Benedicled here an abbey under his protech in after ages became the most t in the kingdom after that of Glas-Its walls enclosed, beside the monstr, a large churchyard, the abbot's irmaries, towers, a chapter house, a veral chapels, 3 small churches, and lid abbey church, founded in 1065, ied with numerous ornaments from Normandy. The abbot, under whom onks, 16 chaplains, and 111 servants, ie most extensive privileges, even to of money and infliction of capital

Outside of the precincts of the dependent on it, were numerous and other charitable foundations. On ation of the monasteries this institualued by the commissioners at £2, which was however much less than its

Almost the only relic left of its he western of its 4 gates. Portions such remain, but are used as dwellings. Parliaments were held here by and several other kings.—The town hplace of Sir Nicholas Bacon, Bishop and Bishop Blomfield of London. It title of viscount to the Keppel family. of the marquis of Bristol, the lord of is in the vicinity.

, an uncivilized, independent tribe, the northern part of the Sierra Maains in the island of Luzon, who tatfaces, breasts, and arms, and wear of ivory, coral, and wood in their Polynesians. On account of this prach distinguishes them from all the other and civilized, of the Malay archipelda and other Spanish writers have d the Busaos and the Burikos, a

kindred tribe, who also practise to be descendants of Pacific islanders; nists, or driven by storm upon the Luzon. Mr. Crawfurd, the English of the archipelago, considers this practal alender foundation for such a sup-However, a scrutiny of the principal of Luzon and of the Maori of New is ses considerable affinity between ance, the Malay words maken,

to eat, and awar or ayar, water, are kai, kau, and wai in New Zealand and the Philippines; and more than a hundred other instances could be adduced, of this elision of the first syllable of Malayan words, used by Pacific and Philippine islanders.

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BUSBEQUIUS, AUGERIUS GISLENIUS (AUGERE GHISLEN DE BUSBECQ), a Flemish scholar and statesman, born at Commines, in Flanders, in 1522, died near Rouen, Oct. 28, 1592. He was employed on several important dip-lomatic missions, and officiated for many years as ambassador at Constantinople, until 1562, when he was recalled to take charge of the education of the sons of Emperor Maximilian II. In 1570 he accompanied the archduchess Elizabeth to France, on occasion of her marriage with Charles IX., and filled the functions of ambassador in Paris until 1592, when the political troubles in France compelled him to resort to flight. On his way to Flanders, he was attacked by a party of Leaguers, and although he received no personal injury, the shock was so great that he died before he could reach his destination. During his residence in Turkey, he made a collection of celebrated Greek inscriptions and manuscripts, which he afterward presented to the library at Vienna, and also employed an artist to make drawings of rare plants and animals. His most famous works are his description of his travels in Turkey, and his essay on the Ottoman empire. He was a scholar of great attainments, and a proficient in many languages.

BUSBY, RICHARD, an English schoolmaster, born at Lutton, in Northamptonshire, Sept. 22, 1606, died in London, April 6, 1695. He was educated at Westminster school and Oxford; entering the church, he was made prebendary rector of Cudworth, in Somersetshire, in 1639, and on Dec. 13, 1640, was appointed head master of Westminster, in which capacity he continued until his death, 55 years afterward. On the restoration of Charles II., he was made prebendary of Westminster, and canon residentiary of Wells. Dr. Busby is traditionally remembered as a severe disciplinarian in his school.

BÜSCH, JOHANN GEORG, a German author of many statistical and commercial works, born Jan. 3, 1728, died Aug. 5, 1800. He was a graduate of Göttingen, and from 1756 to the time of his death, he officiated as professor of mathematics at Hamburg. He founded in that city a commercial school, and promoted the establishment of a society of fine arts and industry, of which he was the first president. His complete works appeared at Zwickau in 1818—'16, in 16 vols.

BUSCHING, ANTON FRIEDRICH, a German geographer, born at Stadthagen, in Schaumburg-Lippe, Sept. 27, 1724, died in Berlin, May 28, 1798. His first geographical work, as description of the duchies of Schleswig and Holstein, was published in 1752. In 1754 he was appointed professor of philosophy at the

university of Göttingen, and in 1760 pastor of the German Lutheran church at St. Petersburg. In 1765 he removed to Berlin. His most important work is his "Universal Geography," which made its first appearance in 1754. That part of it in which he describes the countries and nations of Europe, was translated into English, and published in London in 6 vols. 4to, in 1762.

BUSEMBAUM, HEBMANN, a German Roman Catholic theologian, born at Nottelen, in Westphalia, in 1600, died in Münster, Jan. 31, 1668. He was a Jesuit, and in his Medulla Theologia Moralis (which passed through 50 editions), he carried the doctrine of the temporal supremacy of the popes to such a height, that the secular tribunals in almost every European state were unanimous in pronouncing condemnation on his work, and committing it to the flames.

BUSH, in mechanics, the name given to the piece of hard metal, usually brass, fitted into a plumber-block, in which the journal turns. It is sometimes termed the pillow, and the blocks, pillow-blocks. The guide of a sliding-rod is also termed a bush.—Bushing a gun or cannon is inserting a small cylinder of refractory

metal, as platinum, in the touch-hole. BUSH, GEORGE, an American theological writer, born at Norwich, Vt., June 12, 1796. He graduated at Dartmouth college in 1818, studied at Princeton theological seminary, received ordination in the Presbyterian church, and was for 4 years a missionary in Indiana. He devoted himself especially to biblical learning, was elected in 1831 professor of Hebrew and oriental literature in the university of the city of New York, published in 1882 a "Life of Mohammed," and in 1833 an elaborate "Treatise on the Millennium," in which he regards the millennial age as the period during which Christianity triumphed over Roman paganism. About the same time he compiled from tourists, archæologists, and commentators, a volume of "Scriptural Illustrations," published in 1835 a Hebrew grammar, and in 1840 began the issue of a series of learned and ingenious commentaries on the Old Testament. He edited in 1844 the "Hierophant," a monthly magazine, in which appeared striking articles from his pen on the nature of the prophetic symbols. In the same year he published his "Anastasis," in which he opposed that view of the resurrection which implies a physical reconstruction of the This work attracted much attention, and he answered the many attacks which were made upon it in a treatise entitled the "Resurrection of Christ." In 1845 he connected himself with the Swedenborgian church, translated from the Latin the diary of Swedenborg, and has since that time, in numerous addresses, and short treatises, and as editor of the "New Church Repository," labored to develop and maintain the principles of that philosopher. In 1847 he published a work on the higher phenomena of Mesmerism, which he deems a confirmation of the truths of Swedenborg's revelations.

Personally, Prof. Bush is distinguishes simple manners, and the geniality and of his disposition.

BUSHEL, an English measure of 8 divided into 4 pecks, used for dry grain, fruit, coal, &c. The gallon, wants parliament of Geo. IV., c. 74, § 7, is de determine its capacity, must contavoirdupois of distilled water, w at the temperature of 62° F., tue being at 80 inches; or to contain 277...
inches. The so-called imperial bush must contain 2,218.192 cubic inches. goods measured are of a kind usually l potatoes, coal, &c., it was prescribed, capacity, including the raised cone, 2,815 cubic inches. This rule was abol act of parliament of William IV. chester bushel was the standard before perial from the time of Henry VII 1697). Its capacity was 2,150.42 cubic its dimensions 181 inches internal depth 8 inches. Heaped, the cour not less than 6 inches high, making wit cone its contents, 2,747.70 cubic inch bushel of the state of New York contain of pure water at its maximum densit 211.84 cubic inches.

BUSHIRE, or ABOO-SHEHR, a seapor Persia, in the province of Fars, situate N. E. coast of the Persian gulf, at the extremity of a peninsula, to the north of which is the bay. The climate is hot and unhealthy, producing varie disease, especially of the eyes. In plague made a fearful havoc among lation, which, from 20,000 in previous has dwindled down to 5,000 or 6,0 Beside many huts of palmwood ou gates, there are about 400 white sto the town, which present rather an: pearance from a distance; and use or ventilators, raised over the houses for the comfort of the ladies), to the l 100 feet, contribute to enhance this The narrow streets, however, c there are not less than about 800, are in able condition. There are few hands ings in the town excepting the East in pany's factory and the sheik's palace.is the great commercial emporium of Its merchants carry on an extensive tri East India, Russia, and Turkey, and most all Persia with goods. ports from India are indigo, The steel of India is preferred w countries, and used for the mar-sabres. Tin is imported from coffee chiefly from cha. goods are imported fr tinental Europe, a Br ing long been maintuueu as a the requirements of the incre intercourse. Many goods India are thence exported to. ports are raw silk, sheep's

ied fruit, wine, grain, copper, turbacco, yellow dye-berries, asafœtida s sorts of drugs, rose water, gall-nuts, other minor articles. The principal manufactured articles are carpets, vets, silk goods, and gold and silver Cotton is extensively produced, and ined for home consumption, although t is exported to Russia and other The great route to the interior of s at Bushire, and is not only of mercial, but also of great strateget-ance. On the land side the town by a mud wall with round towers. war between England and Persia, came the basis of military operations, aptured, Dec. 9, 1856, at the very 16 expedition. AN'S RIVER forms the boundary ie districts of Uitenage and Albany,

ay, S. Africa. It empties into the m.

EN. See Bosjesmans.

ELL, David, an American inventor, ybrook, Conn., about 1742, died in 26. He graduated at Yale college in turned his thoughts toward the ina machine for blowing up vessels r water. He exploded, successfully, I models; made a large machine caonveying an operator with 150 lbs. which was tried in vain on the Eagle, 4-gun ship, lying in the harbor of Bushnell prepared a number of n kegs to be floated by the tide upon vessels lying in the river at Philae result of which attempt gave ocne ballad of the "Battle of the Kegs," Hopkinson. Bushnell became a caparmy, and after the close of the war rance. It was long supposed that he me of the troubles of that country, 826, it appeared that on his return pe he had settled in Georgia as a

ELL, HORACE, an American theolo-i in 1802, at New Preston, a part n of Washington, Litchfield co., Conn. e son of Ensign Bushnell, a farmer; a boy was employed in a manufacnative place. He entered Yale col-graduated in 1827, when he was for occupied as literary editor of the of Commerce" of New York, and af-

her of the academy in Norwich, he became a tutor in Yale, and his post for 2 years, studying law and In May, 1833, he accepted a call to stor of the North Congregational lartford, Conn., and still fills that poreceived the degree of doctor of divine Wesleyan university at Middletown, afterward from Harvard university. t production of much notoriety was a Cappa oration, delivered at New Ha-"Principles of National Greatness." vol. iv.—10

The first of his theological books was "Christian Nurture," published in 1847, and devoted to illustrating the author's views on the subject of religious education, the relations of the family as a Christian institution, and other "subjects adjacent thereto," including under this head the philosophy of revivals, and the defining their due limits, as a spiritual power. His next publication was "God in Christ," a collection of 3 discourses delivered by him before 3 different bodies; the Concio ad Clerum, a discourse on the divinity of Christ, at the annual commencement of Yale, Aug. 15, 1848; a discourse on the atonement, delivered before the divinity school in Harvard university, July 9, 1848; and a discourse on "Dogma and Spirit," before the Porter rhetorical society, at Andover, September, 1848. These 8 discourses, with a preliminary "Dissertation on Language, as related to Thought and Spirit," and a brief introduction, were published in 1849 in one volume, which attracted much attention and criticism from the apparent heresy of its views on the subject of the Trinity. Dr. Bushnell was brought before the association of Congregational ministers of which he was a member, and after much discussion and opposition was declared free from the specific charge of heretical opinion brought against him. The obnoxious book opens with a disser-tation on the inefficacy of language to express thought, and its entire want of power to define or depict spirit, except in symbolic or analogic phrases. The discourses following, being an attempt to set forth the author's views on certain doctrinal points, conveyed ideas to most readers of a different nature from those intended by the writer, who published his defence in 1851, in a new volume entitled "Christ in Theology, being the Answer of the Author before the Hartford Central Association of Ministers, October, 1849, for the Doctrines of the Book entitled God in Christ," in which he analyzes the elements and formation of theological opinion, and reviewing the great multitude of so-called heresies that in every age have disturbed the unity of the Christian church by innumerable shades of differing belief, he arrives at the conclusion that systematic orthodoxy is not attainable, and that human language is incapable of expressing with any exactness theologic science. Other writings of Dr. Bushnell are to be found in articles for religious periodicals, chiefly the "New Englander," to which he has contributed a review of the "Errors of the Times," and of a "Charge by Bishop Brownell, of Conn.," "The Evangelical Alliance," "Christian Comprehensiveness," "The Christian Trinity a Practical Truth," and an account of "California," from personal observation. Beside these, he has contributed to the literature of the day many philosophical and metaphysical essays delivered as addresses or sermons. Among these are a discourse on the moral tendencies and results of human history; an oration on work and play; a sermon entitled the "Day of Roada," another on unconscious influence, another entitled the "Northern Iron;" an address on religious music; one on "Politics the Law of God;" an oration on the fathers of New England; a historical discourse on the "Age of Homespun and a speech for Connecticut, delivered before the legislature.—Dr. Bushnell is a person of nervous temperament and sensitive organization. Rather a poet than a logician, his works are remarkable for graphic and dramatic expression, delicate and acute mental perception, beautiful analogies, and great metaphoric power, mingled with trenchant satire, exquisite pathos, and a vein of genuine practical sense that exists in cooperation with a brilliant imagination and sympathetic emotional traits, rendering him an eloquent preacher, and a man who attracts and retains personal regard in an uncommon degree; though the want of strict argumentative force and the overstrained use of analogy in his writings detract something from his reputation as a theologian and polemic.—During a year's absence in Europe, after visiting Rome, Dr. Bushnell wrote a letter to the pope, from London, April 2, 1846, which was published in the papers of the day, and in which he commends to the notice of his Holiness certain alleged defects in his spiritual and secular administra-

BUSKIN, a kind of boot-leg, covering the ster garment so as to protect the leg. The outer garment so as to protect the leg. English men of letters use this word to translate the Latin cothurnus, or high-heeled shoe, which the ancient actors used on the stage to

give them the appearance of height.
BUSS, FRANZ JOSEPH, a German statesman, born at Zell in 1803. He studied successively philology, medicine, and jurisprudence, and since 1836 has been professor of law and political economy at Freiburg. He first made himself known by translations from other languages. In 1837 he began to engage actively in politics, and was elected to the 2d chamber of Baden. At first an extreme liberal, he soon renounced democracy, and appeared as the champion of ultramontane ideas. In 1848 he was made a member of the German national assembly. make the Catholic church entirely independent of the state is the object for which he has been and is yet unweariedly active.

BUSSERUT-GUNGE, a small town of Oude, British India, on the road from Cawnpore to Lucknow, fortified by a wall, a wet ditch, a tower commanding the gateway, and various other works. It was the scene of 8 brilliant but indecisive victories over the sepoys, gained by Gen. Havelock and a handful of British, while endeavoring to relieve Lucknow, July 29,

Aug. 5, and Aug. 11, 1857.

BUSSEY, BENJAMIN, a merchant of Boston, born in Canton, Mass., March, 1, 1757, died in Roxbury, Jan. 18, 1842. He was a soldier in the revolutionary war, became a silversmith in Dedham, afterward a merchant in Boston, where he acquired a large property, which he bequeathed, with a beautiful estate at Jamaica Plain, after the decease of certain relatives, to

Harvard college, for the establishment agricultural school, and the support of and divinity schools of that college.

BUST, in sculpture, the figure of a being truncated below the breast. The ogy of the word is not satisfactorily explut it is of Latin origin. The bust inclu head, shoulders, breast, and arms truncal below the shoulders. It generally: n pedestal. Among the ancients the person was taken, when now his port

be painted or his daguerrectype made.
BUSTAMENTE, ANASTASIO, a presi
Mexico, born in Guadalajara, in 1782, San Miguel de Allende, in 1851. At the 21 he received a diploma as doctor of me began practice in San Luis Potosi, an after became family physician to Gen. viceroy of Mexico. When the revo 1810 broke out, he abandoned a lucrative tice to enter on a military career as li of a regiment organized by Calleja, can "faithful lancers of Potosi." He fough half of the Spanish government again Mexican leaders, Hidalgo, Allende, A and Abasolo, and participated in the battle of Calderon; but, disgusted at with the cruelties of Calleja and his ates, he joined the patriots and served republican ranks. When, Feb. 24. 1821 bide pronounced against the Si ment, Bustamente was one of the urtain him, and to urge the plan of imence proposed by him. Iturbide pro from colonel of the regular line to a general of division, and appointed a mandant general of the interior province office he held, participating in nearly all lic affairs of the state, till he was called vice-presidency of the republic, Dec. \$1 He took part against the president Gt and in Dec. 1830, Santa Anna having be revolution called the "plan of Jalana," charged with the executive pov retained till Aug. 14, 1832. For these government he was much indebted u ister, Don Lucas Alaman. Being successions the presidency by Pedraza, he took o of the army, and was soon a ro by Santa Anna, and by him visited France, where he att tention, and is said to have pursues a ical studies. Upon the outbreak of an revolution in 1886 he returned to and in 1887 was again elected to the p which he held, excepting a short i 1889, till 1841, when he was thrown and banished by f the "plan of Jalisco." Йe to i resided for some time in (fall of Santa Anna in 1846, Mexico, and gave his services many offices till his death. one of the most honorable of use pe Mexico, and the republic was pros his administration.

BUSTARD (otis), a large fowl, peculiar to is dry, grassy plains of Europe, Asia, and ifrica. They have not been observed either merican or Australian continents. They rly abundant in Great Britain, on upen wolds of Wiltshire, Dorsetand of some parts of Scotland, where maid that they were coursed with grey-which is by no means impossible, as not take wing easily or without conpreparation, and when hard pressed suuden have the habit of running with wings outspread like sails to assist them, nner of ostriches, with which they points in common. There are 2 m species of this bird, which appears to maconnecting link between the gallinaceous the ostrich and cassiowary. The great (O. tarda), so called from his heaviwing, for he is a fleet runner, stands my 4 weet high, and weighs from 25 to 80 The head and neck in the male are ed, and on each side of the neck he of feathers nearly 9 inches long, rom the base of the bill, and somecounbling those of the American pinnata. Like them, also, they overlie 2 ts of skin, which in the bustard is of color. The upper parts of the bird are illy variegated with black and rust color pule reddish ground. The belly and sides a. The legs are long, naked above the u sy in hue, and have no hind toe, but a s prominence serving as a heel. aird has a water-sac in the fore part of having its entrance under the tongue, of containing 2 quarts of water. It is out probably falsely, that the bustard contents of this sac as a means of against birds of prey. But there is no rey smaller than the golden eagle capaing a fowl of such size, and a spirt ould hardly check his attack. The rater would hardly check his attack. is much smaller than the male, and less colored; her neck and head are brown, has not the curious water-sac.—The pecies, the little bustard (O. tetrax) is 17 inches in length. It generally resemlarger species in form and color, but eddish brown, while the neck of the mack, with a narrow white border below. The upper parts are mottled we same colors, but with finer and more ines. This species is very common in where it is a shy, cunning, and wary nequenting the barren heaths of Britand those singular tracts known as the The flesh of the bustards, of both species, -superior, it is said, to that of the and it is singular that no attempt to have been made to domesticate them. mentioned by Xenophon in his "Anaas abundant on the sage plains of Meso-, and are regular autumnal visitants of Greece, where they are confounded was wild turkey.—There are 8 other rare

species of bustards recently discovered. The black-headed bustard (O. nigriceps), an Asiatic species, inhabiting the highlands of the Himalayas, and also the open Mahratta country, where it lives in large flocks, and is regarded as one of the greatest delicacies as an article of food. It is nearly 70 inches in length, and its colors, above, are pale bay undulated with rufous brown. Its head, as its name indicates, is black; its neck, belly, and under parts white, with the exception of a black patch on the breast. The O. carulescens of Africa, was discovered by Le Vaillant in the interior of the Caffre country, in south Africa, and in some parts of the colony of the Cape of Good Hope. It appears to have no name in the vernacular; and why it should be called carulescens is not easily to be understood, since its coloring, like that of the other species, its congeners, is reddish brown above, with the under parts of a pale bluish gray. The kori bustard, discov-ered by Burchell on the banks of the Orange river, is nearly 6 feet in height, and but 7 in extent from wing to wing, while its plumage is said to be so thick as to be proof against any thing short of a rifle ball. Little is known of its character or habits.—The O. Denhami, discovered by Major Denham in central Africa, is another large species, not less than 8 feet 9 inches in height. It is found in the grassy districts immediately to the south of the great desert, in the regions of Lake Tchad and the Damhara country. It is not numerous, and is always found in company with gazelles; like which, it is so famous for the brilliancy of its eyes, that the Arabs, when they wish to describe their most beautiful women, are wont to liken their eyes to those of the oubara, which is the general name for all the African bustards.

BUSUAGAN, an island of the Philippine archipelago, the largest of the group called Calamianes, and inhabited by the Bisaya race. Area, 450 sq. m.; pop. 4,500. The geological formation of the island is volcanic, and the soil is equal in fertility to some of the most productive islands of the group, and yet it is poor and sparsely peopled. It is said that its non-productiveness is owing to the extraordinary quantities of wild hogs, porcupines, squirrels, and rats, which destroy all the fruits of

agricultural labor.

BUTCHER-BIRD, a name applied to the great shrike, belonging to the order passeres, tribe dentirostres, and family lanidas. The best-known genus of the family is lanius, Linn, characterized by a moderately long and strong bill, with the culmen curved and tip hooked and emarginate; tarsus short and strong; toes long and robust, the outer the largest; hind toe long and broadly padded; claws curved and sharp. There are more than 30 species described in America, Europe, Asia, and Africa, of which the butcher-bird (L. septentrionalis, Gmel.), or great American shrike, is a celebrated one. The length of this bird is 10½ inches, the extent of wings 14, of the bill along the back \$\frac{1}{2}\$

of an inch. The plumage is soft and blended; long bristles at the base of the bill; wings of ordinary length, 4th quill the largest; tail long, straight, graduated, of 12 rounded feathers; loral space, behind the eye, wings and tail, brownish black; iris hazel; upper parts light ash-gray, tinged with pale blue; a white streak over eye; lower parts grayish white, tinged with brown on the fore part of breast, and with faint, undulating, dusky bass; base of the primaries white, the secondaries and their coverts tipped with the same; in the female the head and hind neck are tinged with brown, and the lower part has more numerous bars. It is common in the middle and northern states for the greater part of the year, retiring northward to breed; according to Audubon, it is not found along the coast of the southern states, the *L. ludovicianus*, Linn., taking its place. The nest is built of dry grass, leaves, and moss, in the fork of a bush or low tree; the eggs are 5 or 6 in number, of a dull cinereous blue color, spotted and streaked at the larger end with yellowish brown; the time of incubation is 15 days. It frequents woody and bushy places, where it sits perched on a branch continually jerking its tail; its flight is undulating and rapid; it is most commonly seen single, or in pairs, and is wary and hard to approach. It feeds on insects, especially grass-hoppers and crickets; but it also attacks and kills small birds, which it tears apart and swallows in large pieces; it pitches downward like a hawk, with closed wings, on the back of its victim, which it instantly strikes in the head, tearing open its skull. In confinement it eats eagerly pieces of fresh beef. It has the singular propensity of impaling insects and small birds on points of twigs and thorns, probsbly for convenience in devouring them, though in many instances this habit seems to be wanton cruelty, as the bird leaves them to decay. The Rev. Mr. Peabody remarks: "This practice of gathering what he does not want, and keeping it till it can be of no use to him, is regarded as an unaccountable mystery in a bird, while in man the same proceeding is considered natural and wise." It is so bold that it often enters apartments where pet birds are kept, and attempts to seize them from the cages; several have been caught in this manner. It imitates the notes of other birds in distress, and when they flock around to see what is the matter, it pounces into the midst, and rarely fails to secure one. It will pursue birds on the wing, and even small quadrupeds and lizards. Audubon is of opinion that this bird is the same as the L. excubitor, Linn., but more recent authorities consider them distinct. The European bird, or great cinereous shrike, is rare in England; it is sometimes trained in Russia for catching small birds, rats, and mice, which, like its American congener, it fixes to a thorn and tears to pieces with its bill; it possesses the same propensity for fixing its food in confinement, according to Selby; it is also called butcher-bird. The L.

ludovicianus, Linn., is a native of the ern states, being confined chiefly to Georgia, and the Carolinas. This is a loggerhead shrike, and abounds on plantations, where it does good servistroying field-mice, large grubs, and pouncing upon them like a hawk. I butcher-birds the legs and claws are ware never used in tearing their prejeffected by their powerful bill, and in differ from the true birds of prey, whi and tear with their telons.

and tear with their talons.

BUTE, an island of Scotland, in the Clyde, about 16 miles long, from 3 to wide; area, 60 sq. m.; pop. 9,499. face in the northern parts is rugged at tainous; the central and southern por undulating and tolerably fertile. The ture is mild and equable, and the island resorted to by invalids. There are lakes, Fad, Ascog, and Quein. The Rothsay is pleasantly situated on the and Mountstrart; the seat of the n Bute, the chief proprietor, is near it.

BUTE, John Stuart, earl of, born land in 1713, died in London, March In his 10th year he succeeded to 1 title and estates. He was educated and in Feb., 1787, he was elected one representative peers of Scotland, and year was appointed one of the lor sioners of police in Scotland. In a he married the only daughter of La Wortley Montagu. In 1750 he was ed lord of the bedchamber to Freder of Wales, eldest son of George II. of his royal patron, in March, 1751, ed princess of Wales honored him much confidence and friendship, that Lord Bute lived happily with his w a large family) it was whispered friendship was far too close and intin obtained a great influence, also, over t ful prince of Wales, who, when elevet throne, in 1760, as George III., him particularly as his favor to the privy council, appoint. Jиш the stole, and from that ! ~onsu on all the principal of March, 1761, Lord Bute v de secretaries of state. His w British peeress in her own Mountstuart. In the follow, Octo liam Pitt (the elder), finding his p nominal head of the administration, by the vast influence of the new seci tired from the cabinet; and in the duke of Newcastle also r succeeded him as prime min siderable ambition and inc Lord Bute was now in an u was ill adapted. Unpopularity; his head. The attack was possed Wilkes and Churchill, t poet him because he v 186 only embodied t

England was then involved in what is the 7 years' war. Lord Bute made peace, as accused, in conjunction with the se dowager, of having been bribed to too favorable terms to the enemy; and lord Camden, many years later, stated a viction of the truth of the charge, as patrimonial estate was worth only £1,500' and he was only life-tenant of Wortley, he sank £300,000 in land and houses.

also intimates corruption, but withmg his charges by evidence. At last, on , 1763, within 5 days after he had been attacked by name, in Wilkes's "North" the resignation of Lord Bute suddenly

He had been premier for little more months. Retaining his influence over the sonominated his immediate successors; re soon followed a cessation of all interwith his majesty. From 1765 they never

for a long time after, his influence was u to continue, and was complained of by office. Lord Bute went back into private son was placed on the British peerage, as Baron Cardiff), passing his time besotland and England, with an occasional the continent. The closing years of his spent in a villa on the coast in Hamp-He had some literary tastes, and while or gave a good sinecure to Home, the of "Douglas;" he manifested some in-

he welfare of the younger Bentley; and a pension of £300 per annum to Dr. a; he proposed that the antiquarian should execute a history of British

s; and he published, at his own ex-210,000), 9 quarto volumes, delineating totany, and after 12 copies were workestroyed the plates.—Bute's eldest son ed a British marquis in 1796. Lady of 6th daughter and 11th child of

vived until Aug. 1851 (aged 94), induced some interesting introductory as to Lord Wharncliffe's edition of Lady Wortley Montagu's works. One of his was created Baron Wharncliffe in another was created Baron Stuart in 1828.

E.LEFF, APOLLINARIS, a Russian statesthe present day, entered the diplomatic at an early age, and having served in subordinate capacities in the depart-councillor of legation at various courts, y in 1830 became ambassador in nople. In concert with Orloff and w he took a prominent part in the negotiaf 1833, and ingratiating himself, by his nagement of affairs, with the divan, so formidable antagonist to the repreres of the Austrian and British govern-The state of his health making a sphere of action desirable for him, he naferred to Rome in 1843. Here, however, less successful in settling the misundergs between the holy see and St. Petersburg. In 1847 he assisted Count Bludoff in bringing about the concordat. After the conclusion of the treaty of Paris he was sent again to Constantinople, and accredited there as ambassador Aug. 25, 1856. Butenieff is a shrewd diplomatist, and at the same time a well-disposed and benevolent man, and a Russian to the core. He is singularly familiar with Turkish affairs.

BUTERA, GIORGIO, prince, a fortunate German, son of the Rev. Mr. Wilding, a Hanoverian clergyman (according to other accounts the family name was Schwinge), born about 1790, died in Wiesbaden in 1841. He took service in the English-German legion, and had attained the rank of lieutenant in 1810, when on his arrival in Sicily he was seized with illness. Great attention was shown to him by the family of the prince of Butera, whose daughter fell in love with him, and he finally married her, inheriting his father-in-law's title and estate, and receiving in 1832 the appointment of Neapolitan ambassador in Paris, and afterward in St. Petersburg.

BUTESHIRE, a county of Scotland, consisting of the islands of Bute, Arran, Inchmarnoch, and the Cumbrays, in the frith of Clyde; pop. 16,608. The constituency of the county in 1853 was 483, and 1 member is returned to parliament. The inhabitants of these islands are principally engaged in agriculture and fishing; there are some quarries and coal mines. Rothesay, the county town of Bute, is a watering place.

BUTLER. I. A western county of Pennsylvania, bordered by the Alleghany river, and having an area of 800 sq. m. The surface is moderately uneven and the soil sandy, but not remarkably productive. It yields, however, fair crops of corn, rye, what, and oats, beside affording pasturage for sheep and cattle. Silk is produced to some extent. Bituminous coal, iron, and limestone are abundant. The productions in 1850 were 231,595 bushels of wheat, 287,389 of Indian corn, 585,684 of eats, 81,695 tons of hay, and 699,764 pounds of butter. There were 8 woollen factories, 1 cotton factory, 28 corn and flour mills, 10 saw mills, 14 tanneries, 2 breweries, 5 iron furnaces, 4 founderies, 3 potteries, various other manufactories, 62 churches, 8 newspaper offices, and 7,000 pupils attending public schools. Organized in 1800, and named in honor of General Richard Butler, an officer of the revolution. Pop. in 1850, 80,846; capital, Butler. II. A southern county of Alabama, drained by Sepulga river, and having an area of 875 sq. m. The surface is hilly and in great part covered with pine woods. The quality of the soil is fair. Cotton, corn, and sweet po-tatoes are the chief staples. The productions in 1850 were 4,094 bales of cotton, 805,272 bushels of Indian corn, 84,890 of sweet potatoes, and 30,930 pounds of rice. There were 28 corn and flour mills, 8 saw mills, 1 newspaper office, 8 churches, and 235 pupils attending schools and academies. Pop. in 1850, 10,886, of whom 8,689 were slaves. Capital, Greenville. The county is traversed by the proposed route of the Capital, Greenville. The county

Mobile and Girard railroad. III. A south-western county of Kentucky, intersected by Green river, which is here navigable by III. A southsteamboats, and having an area of 500 sq. m. The face of the county is uneven and the soil moderately fertile. Cultivation is bestowed principally upon corn, oats, and tobacco. Live stock is also reared. The productions in 1850 were 289,774 bushels of Indian corn, 40,840 of oats, and 207,819 pounds of tobacco. were 9 corn and flour mills, 1 saw mill, 13 churches, and 818 pupils attending public schools. Value of real estate in 1855, \$611,-539. Pop. in 1850, 5,755, of whom 681 were slaves. Capital, Morgantown. IV. A southwestern county of Ohio, bordering on Indiana, and having an area of 455 sq. m. It is generally level, fertile, and remarkably productive. The crop of Indian corn in 1850 exceeded that of any other county in the state except Ross; there were 2,737,734 bushels raised, beside 291,782 of wheat, 344,517 of oats, and 10,494 tons of hay. An excellent species of limestone for building purposes underlies the county. Water-power is abundant, and the transportation of the agricultural products is greatly facilitated by the Miami canal and railroads from Cincinnati to Dayton, and Richmond, Indiana, which pass through the county. Pop. in 1850, 80,789. Capital, Hamilton. A number of interesting monuments of the aboriginal inhabitants have been discovered in this county, chiefly on the banks of the Great and Little Miami rivers. Some of them are works of defence consisting of earthen ramparts from 4 to 9 feet high, thrown around the brows of hills, enclosing from 16 to 95 acres of ground, and entered by gateways protected by intri-cately arranged embankments; others appear to be traces of sacred enclosures, and of others it is difficult to conjecture the design. They have been fully described by Messrs. Squier and Davis in their "Monuments of the Mississippi Valley." V. A south-eastern county of Missouri, bordering on Arkansas, and having an area of 560 sq. m. The surface is level or moderately hilly, and the soil suited to the growth of Indian corn, wheat, and cats, which together with cattle form the staples. The productions in 1850 were 2,387 bushels of wheat, 55,800 of Indian corn, 8,058 of oats, and 1,558 pounds of wool. There were 4 churches, and 91 pupils attending public schools. The county was named in honor of William O. Butler, of Kentucky. Pop. in 1856, 2,152, of whom 48 were slaves. In 1850 there were 53 slaves, and 1,563 free inhabitants. VI. A newly erected north-eastern county of Iowa, consisting mainly of uncultivated prairie land, drained by several branches of Red Cedar river; area, 578 sq. m. In 1856 it produced 723 tons of hay, 5,409 bushels of wheat, 6,906 of oats, 53,605 of Indian corn, and 7,711 of potatoes. Capital, Clarksville. Pop. in 1856, 2,141.

BUTLER, ALBAN, an English Catholic biographer, born at Appletree, Northampton-

shire, in 1710, died at St. Omet, in 1773. Having become a clergyma Catholic church, he was chaplain time to the duke of Norfolk. He sul became president of the college of in France. He wrote several works, the best known is the "Lives of the Martyrs, and other principal Saints." been translated into many modern last

BUTLER, ANDREW PICKENS, U. 1 from South Carolina, 5th son of G Butler, born in Edgefield district, o. 17, 1796, died near Edgefield court-h 25, 1857. He graduated at South Ca lege in 1817, and was admitted to the l As a lawyer he practised in the circui Edgefield, Barnwell, Orangeburg, I and Newberry, and here laid the four his reputation, not simply as a soun and eloquent pleader, but for good sen cal foresight, and a lively, companional In 1824 he was elected to the legislate representative of his native district, he was one of the committee in the l who prepared the articles of impeach conducted the prosecution against Jud a veteran of the revolution, charged competence and drunkenness. In 182 ried Susan Ann, daughter of Col. Eld kins, of Edgefield; but she died pre only a few months after marriage. period marked by the apprehended South Carolina with the federal gov on the nullification issue, he was elec nel of a regiment of cavalry. In member of the legislature, he was judge of the courts of general sessions mon pleas. Subsequently, when a c made in the judiciary system, he w ferred to the supreme bench of the sta he continued until 1846, when he was senator in congress. Soon after seat in this body, he was appointed of the judiciary committee. One of h speeches was against making Col. Be tenant-general of the army. He made upon a call for supplies to support the w Mexico. His report upon the f law was maintained by an elaborat. the floor. His speech upon the Pa has been preserved in pamphlet form quest he defended President Pierce's Miss Dix's bill, appropriating put for a lunatic asylum. The Kansas que action of the naval retiring board, the question, and all others affecting the p terests of South Carolina, and the gen fare of the south, engaged him in debate, in which he always took a co part. His last speech was in reply to ner, and in defence of South Caroli speeches and reports well merit the ex of the student who seeks to understand nant period of our political history betv and 1857. Judge Butler, himself, live a public life during all this period. He

r all his numerous kindred, 6 brothuster. In 1882 he had married Harter of William Edward Hayne, and time he was again a widower, with wing child. This domestic desolation, incessant strifes of public life, con-o enfeeble an otherwise vigorous frame c temperament, and hastened his death. ER, CHARLES, a Catholic historian and t, born in London, Aug. 15, 1750, per in Pall Mall, and nephew of the an Butler, author of "Lives of the He was called to the bar in 1791, and first Roman Catholic who was adr the passing of the relief bill of He wrote various pamphlets and aductions which attracted little noor which he produced Hora Biblica, history of the original text, early and printed editions of the Old Testaments, and also of the Koran, -Avesta and the Edda. This first in 1797, and ran through 5 editions ench translation. This was followed Juridica Subseciva, a connected series especting the geography, chronology, ary history of the principal codes and do ments of the Grecian, Roman, canon law. He continued and Hargrave's "Coke upon Littleton." rvised the 6th edition of Fearne's n Contingent Remainders," and con-o Seward's "Anecdotes" an intereston the Character of Lord Mans-rensic Eloquence." He wrote a hishe geographical and political revolu-Permany, and a "Historical and Literof the Formularies, Confessions of symbolic Books of Roman Catholic, and Principal Protestant Churches." is last 25 years Mr. Butler principally is pen to the vindication of the Catho-He wrote numerous biographies of Jatholic divines and authors; he conuncle's "Lives of the Saints," and Historical Memoirs of the English, Scottish Catholics." When South--Protestant "Book of the Church" apwas replied to in Butler's "Book of Catholic Church," which gave rise ers on the Protestant side, 2 of which lomfield, bishop of London, and the rge Townsend) were responded to by er. In 1822 was published the first f Mr. Butler's "Reminiscences," an

aphy. The second volume appeared As a constitutional lawyer his repu-

ZR, Cyrus, a merchant of Provi-I., born in 1767, died at Proviag. 22, 1849. He was the son of Butler, originally a common shoe-

ho removed from Edgartown in Massato Providence about the year 1750.

himself in trade, he reached a high

s very high.

degree of prosperity, which was shared by his sons Cyrus and Samuel, who were, however, brought up in habits of the strictest economy, and disciplined on the shoemaker's bench to the use of the awl and lapstone. The business was conducted in the name of Samuel Butler and Sons, and on the death of the father passed into the hands of the sons. Samuel Butler, jr., had but 2 children, a son and a daughter; the former survived his father but a few years; the latter became the wife of Alexander Duncan, and her uncle Cyrus having lived and died a bachelor, she inherited his great wealth, and that of her father and grandfather. Her uncle's estate was estimated at between \$3,000,000 and \$4,000,000. Several years before his death, at the instance of Miss Dix, so widely known for her philanthropic exertions, he gave \$40,000 to endow the Butler hospital for the insane in Providence.

BUTLER, JAMES, duke of Ormond. See OR-MOND.

BUTLER, James, a partisan officer of South Carolina during the revolution, born in Prince William co., Va., removed to South Carolina in or about the year 1772. He settled in what was then a frontier region of the country, and was soon called upon to take a part in Indian warfare. He was a good woodsman, and an excellent shot with the rifle. He was in what was called the "Snow Camp expedition," under Gen. Richardson,—an expedition involving the first struggles of the civil war in South Carolina with which the revolution began. Subsequently, he served under Gen. Williamson, in a similar expedition, in 1776. When Lincoln had taken the command of the continental forces of the South, Butler joined this general near Augusta in 1779. After the fall of Charleston, in 1780, and when the state was supposed to be completely in the power of the British, Lord Cornwallis issued a proclamation requiring the people to swear allegiance to the crown. Butler was one of those who refused. He was arrested, lodged in the gaol at Ninety-Six, was subsequently conveyed to the provost of Charleston, and then to the prison-ship. He was kept for 18 months in close confinement. When released, and on his return home, he was suddenly summoned forth to engage in an expedition against a foray of the tories of his precinct, and was killed in the massacre which followed at Cloud's creek.

BUTLER, John, a tory leader during the American revolution, born in Connecticut, left his native state before the outbreak of the war, and settled in the valley of Wyoming. Here, at the very beginning of the struggle, he organized a band of marauders and murderers, who were all painted and dressed like Indians, but who were in reality, for the most part, American traitors and vagabonds in disguise. At the head of these miscreants, he attacked and plundered the villages of that region, and slaughtered their inhabitants. The British government, on the conclusion of the war, generously granted But-

ler 5,000 acres of land in Canada, and a pension of £500 a year.

BUTLER, JOSEPH, an English theologian and moralist, born at Wantage, in Berkshire, May 18, 1692, died in Bath, June 16, 1752. He was educated in the Presbyterian communion, and early gave proofs of an extraordinary aptitude for abstruse speculation. In 1713 he addressed a series of letters to Dr. Clarke stating 2 objections to the reasoning in his "Demonstration of the Being and Attributes of God." The sagacity displayed by his correspondent was such that Dr. Clarke published the letters with his replies to them in the subsequent editions of his work. About this time Butler adopted Episcopal views and with the reluctant permission of his father entered the university of Oxford in 1714, and was soon after admitted into holy On the united recommendation of his college friend Edward Talbot and of Dr. Clarke he was appointed preacher at the Rolls in 1718, and in 1726 was promoted to the wealthy but secluded rectory of Stanhope. Before leaving the Rolls he published a collection of 15 sermons, which reveal his metaphysical rather than eloquent cast of mind, and are admirable for their logical symmetry. The first 3 of them are upon human nature, which he surveys as an organic system or constitution, and finds its law or ruling principle in the supremacy of conscience. Though he combats those moralists who make self-interest the only motive of action, and affirms the authority of the moral faculty over both the passions and affections of the soul, and the acts of life, yet he does not pronounce upon the nature of conscience, does not venture to designate it by a constant name, and it is difficult to say whether he regarded it as a power of sentiment or of reason. After 7 years of retirement at Stanhope, he was appointed chaplain to Lord Chancellor Talbot, and in 1736 became clerk of the closet to Queen Caroline, who sought to adorn her court by the presence of divines as well as statesmen. In that year he published his "Analogy of Religion, Natural and Revealed, to the Constitution and Course of Nature." This work, though but a commentary on a pregnant passage of Origen, and though its argument has but a narrow compass, is yet one of the most profound and original theological studies in the language. It is designed neither positively to establish religion nor directly to answer objections to it, but only to prove that the principal preconceived objections which are raised against Chris-tianity may also be raised against the structure of the universe and the course of nature. By presenting parallel difficulties in admitting the divine authorship of nature and of the Christian revelation, he does not demonstrate the latter, which can only be done by positive evidence, but he destroyed the prima facie advantage which the deist of the 18th century had assumed in discussion with Chris-His argument does not pretend to establish the truth of Christianity, but is irresistible

in removing the anterior obstructions to a sideration of its evidences. This work fruit of many years' reflection, is comp a most compressed and ungraceful style. James Mackintosh says that no other this so great was ever so poor a writer. In a Dr. Butler was made bishop of Bristol, when he was promoted in 1750 to the see of Durha A charge which he delivered to the clergy the latter diocese, upon the importance of cen monial worship as subservient to the re and power of religion, and the circ that he introduced into his chapel a wince ble cross, gave rise to a report, contradicted a his nearest friends, that he had secretly joined and that he died in, the Roman Catholic con munion. His death occurred while on a to Bath in hope of recovering his health, wi had rapidly declined, and he was buried in cathedral of Bristol, where 2 monuments = erected to his memory. Dr. Butler is desc as having possessed a pale, thin, placid and white hair hanging gracefully upon He was never married. shoulders. his few eccentricities was a custom of 1 ing for hours in his garden during the anights of the year. His character and we were highly estimated by Hume and L Kames, who both sought an introduction him; which, however, he declined, "on score of his natural diffidence and reserve. being unaccustomed to oral controversy. his fear that the cause of truth might suffer from the unskilfulness of its advo

BUTLER, Col. PIERCE M., governor of Se Carolina, son of Gen. William Butler, bo-Edgefield district, S. C., April 11, 1798, 1 in the battle of Churubusco, Aug. 20, After completing his school education he came temporarily a clerk to his elder bre When Mr. Calhoun was secret George. war, Butler was appointed to a lieutenan the 7th infantry. He attained the captain, and served in that grade for servers. However, on his marriage, he resign his commission, and was made cashier of bank of the state, at Columbia, of which subsequently became the president. He signed the office to accept a lieutenant-colons commission under the state, in the Semin war in Florida, in the dragoon regiment of C Goodwin. Upon his return from Flori was elected governor. On the expirati his term of office he accepted the app from the U.S. government of agent we Cherokees, west of the Mississippi; was moved from this office by Mr. Polk, who, be ever, appointed him to treat with the Co Indians. On his return to Washington w= an account of his mission, he received adthat he had been elected colonel of the P: to regiment of South Carolina, just then for volunteer service in the Mexican war. at once accepted the appointment, and hurr home to his command. The rest of his c is that of the Palmetto regiment. It to

BUILER

is nearly every action following that of Cerro Gerdo, until the conquest of Mexico, its flag being the first planted on the walls of the conquest city. In the battle of Churubusco Col. latter, though already severely wounded, was gillantly leading his regiment, when he was shot through the head, and died on the field.

BUTLER, RICHARD, a major-general in the amy of the United States, killed in the conflict between the Indians and the army of Gen. St. Clair, Nov. 4, 1791. The disaster of that day, and the death of Gen. Butler, were the consequence of a panic which had seized the militia in the first line on the sudden attack of the Indians. As Butler lay bleeding and helpless on the ground, a savage tomahawked and scalped him. BUTLER, SAMUEL, an English poet, born at Strensham, Feb. 13, 1612, died in London, in 1690. The son of a farmer, he commenced his education at Worcester, and sought ineffectually the means of studying at Cambridge. As clerk to sjustice of the peace he obtained leisure during several years to cultivate literature and thearts. He is afterward found in the family of the countess of Kent, where he enjoyed the me of a library and the conversation of the samed Selden, who often employed him as an manuensis. He next appears, probably as too, in the family of Sir Samuel Luke, a Bedindshire gentleman, an ardent Puritan, one of Comwell's officers, and who is supposed to have been the original of Sir Hudibras. After the restoration he was appointed secretary to the earl of Carbury, president of Wales, who made him steward of Ludlow castle. At 50 years of age he married a widow of good family and fortune, but the fortune was lost by bad investment. In 1663 appeared the first part of "Hudibras," a poem in ridicule of the Puritans, abounding in wit, learning, satire, and ingenious thought, and which has remained without a rival in English burlesque poetry. hight Sir Hudibras and his squire Ralph were truthful representatives of English Puritanim as Don Quixote and Sancho Panza were of Spanish knight-errantry. They are made to Present a most grotesque appearance, in ludi-cous eraggeration of the affected language, des, and moral severity of the Cromwellians. The poem exactly suited the prevalent taste of the time, and obtained the highest popularity. It was quoted by Charles II., studied by the couriers, and applauded by the whole royalist party. The only recompense received by Butter was a present of £800 from the king. Two other parts of it were published in 1664 and in 1678, but it was left unfinished. Many of its allations have now become unintelligible without notes, and its condensation of thought and style and its monotony of wit make its continuous reading wear isome. Although Butler enjoyed a great reputation at a brilliant court and mong distinguished men, there is even less known of the later than of the earlier part of his life, and it is only certain that he died in poverty and obscurity in a mean street in London. Among his shorter poems is one on the "Elephant in the Moon," in which he ridicules what he deemed the whimsical philosophical researches of the royal society. Of his few prose works, the "Characters" are the most interesting. Sixty years after his death a monument was erected to his memory in Westminster abbey.

BUTLER, Dr. Samuel, bishop of Lichfield, Eng., born at Kenilworth, in the county of Warwick, Jan. 8, 1774, died at Eccleshall castle, Staffordshire, Dec. 4, 1889. He was educated at Rugby and Cambridge, in 1797 was elected fellow of his college, and in 1798, in his 25th year, was appointed head master of the endowed school of Shrewsbury, in which he continued 38 years. While thus occupied, permanently obtaining reputation and rapidly amassing wealth, he successively received several church preferments: in 1802, the vicarage of Kenilworth, his native town; in 1817, a prebendal stall in Lichfield cathedral; in 1822, the archdeaconry of Derby. He was made D. D. in 1811, and was appointed bishop of Lichfield in 1836. health began to fail soon after this promotion, which he lived to hold only 3 years. His best known literary production is his edition of Æschylus, from the text of Stanley. Previous to his appointment to Shrewsbury, he was requested to prepare this by the syndics of the Cambridge university press. This work appeared in 4 vols, 4to, in 1809-16. Dr. Blomfield (since bishop of London) severely criticized the first 2 volumes in the "Edinburgh Review," and was attacked for doing so in a "Letter" from Dr. Butler. In conjunction with the Rev. Francis Hodgson, Dr. Butler translated Lucien Bonaparte's epic of "Charle-He published numerous tracts and sermons, but his best works were educational.

BUTLER, SIMEON, an American publisher and bookseller, born in 1770, died in 1847, at Northampton, Mass., where he had begun business in 1792. The booktrade in this country was then in its infancy, and his establishment was the first of the kind in western Massachusetts. It required no small amount of enterprise and resolution to commence the publishing business at that time in a retired country town, at a distance from market, yet he conducted it with so much caution and skill that after the lapse of 60 years the house and the business are still continued. As early as 1800 he published an edition of Vattel's "Law of Nations," the first printed in the United States, and at the same time the first volume of the first edition of the Massachusetts supreme court reports; also, Dwight's "School Geography," which became so popular as to require a yearly issue of 20,000 copies. He also engaged in papermaking, and made the first American letter paper used by the senate of the United States.

BUTLER, WILLIAM, a general of militia in South Carolina, born in Prince William co., Va., in 1759, died in Sept. 1821. He became a lieutenant in the army of Lincoln in 1779, was

engaged in the battle of Stone, and served in the famous corps of Pulaski, until the death of the latter, at the siege of Savannah, disorganized his legion. The fall of Charleston soon followed the disastrous defeat of the Americans and French before Savannah, and the militia was temporarily dispersed, while the continental forces were in captivity. But, with the first rising of the partisan leaders of Carolina, William Butler joined the troops under Gen. Pickens. Subsequently, he served with Lee, under Greene, at the siege of Ninety-Six, and was detached on several separate services, involving the necessity of equal celerity, courage, and vigilance. It was on one of these expeditions, while under the command of Gen. Henderson, that Butler first met the lady, Behethland Foote Moore, whom he subsequently made his wife. After Greene's defeat at Ninety-Six, Butler joined the legion of Lee for a season, but soon took the field as a partisan, served for a while with Pickens, and at length rose to a command of mounted rangers. At Dean's Swamp, associating his command with that of Capt. Michael Watson, they were severely handled in a fight with a superior force of loy-Watson fell, and Butler took the command, continued to fight against the greatest odds, and only escaped massacre by the timely arrival of a reenforcement from Orangeburg. In another sharp struggle with a similar enemy, upon the Edisto, when Judge Ryan, the first in command, was shot down, Butler assumed the lead and succeeded in driving the foe across the river. While in command of the rangers, under Pickens, he had frequent conflicts with the notorious Bill Cunningham, one of the most reckless and desperate of all the loyalists. In the fall of 1781, near Carradine's ford, they had one of these sharp passages, which was rather a duel than a battle, and enlivened by many curious incidents. Butler, goaded by personal enmity, pursued Cunningham for miles with a vindictive spirit fully equal to his own. It was a prolonged running fight of several hours, frequently renewed. Butler served thus to the close of the war, was a favorite of Pickens, and usually employed in services which called for audacious enterprise and rapid movement. In 1784 he married Behethland Moore. Soon after he was nominated as brigadier-general by Pickens, who then held the rank of major-general. Pickens resigning in 1796, the legislature elected Butler to that dig-In 1800 he was elected to congress, in opposition to Robert Goodloe Harper. He took his seat in 1801, and served till 1806, when he was appointed chairman of the committee of investigation in the case of Wilkinson, charged with complicity in the Burr conspiracy. Wilkinson making some offensive remark touching a "prosecuting militia general," Butler resigned his place as chairman, and sent Wilkinson a message. The result was a much friendlier temper on the part of the latter. A majorgeneral of militia at home, Butler declined the

commission of a b he resigned his seat in co. make way for Mr. Calhoun. n 181 called, by a very complimentary or Gov. Allston, to take command of t of South Carolina, which state was 1 posed to be in danger of British invarepaired to Charleston for this purpose menaced danger passed off, and the l sequently fell on New Orleans. Butl at the close of the war, and resumed t of his farm. In the interval between wars with Great Britain, he was member of the convention of 1787, in ton, to consider the adoption of th constitution, and, along with Gen. Su others, voted against it. He was sub a member of the convention which fr present constitution of the state; was time a member of the legislature; (then an officer of high distinction) and at one time served as a magistr was large and handsome of person, 6: a bold rider, with a great passion for active, eager, and determined. He markable for the fearless independen character. He sought the turf with ran famous horses, kept none but blo mals, and made his own sons break even at the peril of their necks. Trad serves sundry remarkable stories of dare-devil horsemanship. He had a children. Two of his sons, James and died the same month and year with James was sheriff of Edgefield distri colonel of cavalry. George was a lav during the war of 1812, served as the regular army. William was a p and served as surgeon at the battle Orleans; he was also, for a single member of congress. Frank died as the Saluda regiment.
BUTLER, WILLIAM ALLEN, a livin

BUTLER, WILLIAM ALLER, a livin can lawyer and poet, born in Albany, 1825. He graduated at the New Yor sity in 1843, studied his profession in of his father, Hon. B. F. Butler, tr. Europe from 1846 to 1848, and since I has been actively engaged in the pithe law in New York city. He an academic poem, entitled the in 1846, and has contributed many prose and verse to the "Democratic the "Art-Union Bulletin," and the World." In 1850 he published a volu character of "Rejected Addresses," "Barnum's Parnassus," and in 1857 the "Nothing to Wear," which passed numerous editions, and was followed imitations. A new poem by Mr. B titled "Two Millions" was issued in mer of 1858.

BUTLER, WILLIAM ORLANDO, an . general, born in 1793, in Jessamine whither his father, Percival Butler, a

Pennsylvania, who was made adjutant-general buring the war of 1812, had removed in 1784. The son was about devoting himself to the legal profession, when the war of 1812 broke out. Enlisting as a private soldier in Capt. Hart's company of Kentucky volunteers he gained distinction in the battles at Frenchtown and the river Raisin, and having been for a short time detained in prison by the English, he was, on returning home, promoted to a captaincy. Subsequently he took a conspicuous part in the battles of Pensacola and New Orleans, was brevetted major, Dec. 23, 1814, acted as aide-decamp to Gen. Jackson from June 17, 1816, to May 81, 1817, when he tendered his resignation, resuming for the next 25 years the profession of the law, marrying, and residing at his patrimonial estate, near the confluence of the Kentucky and Ohio rivers. From 1839 to 1843 he served as a representative in congress from that district, in the interests of the democratic party. Nominated as a candidate for governor of Kentucky in 1844, he was defeated by the influence of Mr. Clay. Created major-general, June 29, 1846, he led with great spirit the daring charge at Monterey, and although wounded on that occasion, he still remained for several months with the army. By resolution of congrees of March 2, 1847, a sword was presented to him in testimony of his services. On Feb. 18, 1848, he succeeded Gen. Scott in command of the army in Mexico. The most important operation during his tenure of this office was the defeat of Padre Jaranta and his guerilla frees by Gen. Lane. His military administration in Mexico was brought to a close on May 29, 1848, when he announced the ratification of the treaty of peace. After his return to the United States he was nominated in 1848 by the democratic party as candidate for the vice-presidency, Gen. Cass being the candidate for president, but was defeated by the election of

BUTRET, C. DE, baron, a French horticulturist, died at Strasbourg in 1805. He was of a noble family, but renounced his rank and fortime in favor of his younger brother. His book on the pruning of fruit-trees has been repeatedly reprinted. He had made preparations for a magnificent garden and horticultural school in the vicinity of Strasbourg when the revolution obliged him to leave France. He passed to the court of the elector palatine, who intrusted to him the management of his gardens.

BUTT, Isaac, an Irish politician and lawyer, bornat Glenfin, county of Donegal, Ireland, 1813. He obtained a scholarship in Trinity college, Dublin, in 1832, and graduated with distinction a 1836, taking honors in classics and mathematica. In May, 1836, he was elected to the Professorship of political economy (founded in 1832, by Archbishop Whately); was called to the Irish bar in 1838, and made queen's counsel in 1844. In the Irish state trials of 1848, Mr. Butt ably defended several of the accused. He was alderman of Dublin for some years. In 1850 he unsuccessfully contested the parliamentary representation of Mayo, and sat for Harwich from May till June, 1852. He was elected M. P. for Youghal in 1852, and again in 1857. Mr. Butt has written a novel, as well as political pamphlets, and was the first editor of

the "Dublin University Magazine."

BUTTAFUOCO, MATTRO, a Corsican general and diplomatist, born in 1730 at Vescovato, died in 1799. When the duke de Choiseui determined to re-unite Corsica to France, Buttafuoco was one of his principal agents. In 1768, when the Genoese ceded to France their claim to Corsica, it being impossible for the island to maintain an independent existence, Buttafuoco favored and contributed to its simple incorporation into the French kingdom. He was chosen deputy from Corsica to the states general in 1789, and there avowed himself a partisan of the old régime. This course excited great displeasure among his compatriots, and in several of the Corsican towns he was burnt in effigy. He also received an angry letter from Napoleon himself, then only a lieutenant of artillery at Auxonne.

BUTTE, a northern county of California, bordering on Utah, and having an area of about 5,000 sq. m. The surface is uneven, and in some parts mountainous, being traversed by the Butte mountains, from which it is named, and having several remarkable elevations, one of which, called Table mountain, bears a strong resemblance to a castle. The highlands are generally covered with noble pine and cedar forests; the valleys are also well wooded, watered, and fertile. The productions in 1856 were 165,000 bushels of wheat, 210,000 of bar-There were 2 grist mills, ley, and 6,000 oats. 16 saw mills, and 1 newspaper office. The county is exceedingly rich in minerals, embracing not only gold, but also platinum, silver, quicksilver, iron, and lead. In 1856, there were 24 large quartz-crushing mills in operation, and the amount of capital invested in river mining on Feather river and its forks was \$490,000. The annual yield of the placer mines was estimated at \$800,000. Capital, Hamilton. Pop. in 1852, 8,572.

BUTTE RIVER rises in Butte co., California, and taking a S. S. W. course, joins the

Sacramento in Sutter co.

BUTTER (Gr. βουτυρον; βους, a cow, and τυρος, cheese or coagulum), the oily matter in milk, which, when separated from it, is solid at ordinary temperatures. It exists in the milk in the form of globules, and these tend to rise from the serous part of the milk, and collect in the cream on the surface, of the substance of which it forms about 4.5 per cent. Mention is several times made of butter in the English version of the Old Testament, but the Hebrew word thus translated is supposed by scholars to mean some liquid preparation of milk or cream. The oldest distinct allusion to butter is by Herodotus. In the works of other writers of about the same period reference is made to it. The Thracians

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ate it; but the Greeks regarded it as a wonderful kind of food. It appears to have served as an ointment, and to have been in very general use for this purpose among the different nations of Europe. It is related by Plutarch that a certain Spartan lady visiting Berenice, the wife of Dejotarus, the former smelt so strongly of sweet ointment, and the latter of butter, that neither could endure the other. Dioscorides describes how butter is made by agitating the fattest milk, as that of the sheep; and Galen treats of the comparative qualities of that made from the milk of different animals; but none of these early writers make any mention of its being used except as an ointment in the bath, or as a medicine, by any other people than the Thracians and the ancient Germans. Cheese appears to have come into general use as food long before butter, and to this day among the nations of southern Europe the latter article is sold by the apothecaries as a medicine, its place as an element of food being occupied, as it always has been, by vegetable oils.—Milk consists of whey or serous matter, in which the caseine or cheese is held in solution, and with which the butter globules are mechanically mixed. When thoroughly separated from the other substances, these globules form the solid butter, but there is always more or less water intermixed, and some caseous matter also, which by its fermentation induces the rancidity in butter long kept. Dr. Thomson found a sample of the best butter to consist of water 12.79, butter oil 86.27, and caseine or curd 0.94. The butter oil is soluble in ether, and the caseine is not. The proportions of the ingredients may hence be ascertained by making this solution after the water has been expelled at a temperature of 212°; but if other ingredients are present, they must be estimated by other processes; thus salt is determined from the amount of ash left by a weighed portion of the butter after incineration. Butter oil is a substance of very compli-cated composition, in which no less than 6 different organic acids are detected, and a sweet sirup called glycerine, with which these acids are combined. Bromeis found in 100 parts of butter 68 parts of margarine, and 30 of butyroleine-compounds of margaric and butyroleic acids with glycerine. The remainder was glycerine divided among butyric, caproic, cap-sylic, and capric acids. When milk or cream (which most abounds in the fat globules) is agitated, as in the process of churning, these globules are in part broken up and run together, forming at last a mass of butter. No chemical change is involved in this, though the ingredients of the milk are thus made to separate in part from each other. The product is obtained from sweet cream, or from cream that has become sour, and as the latter yields it more readily, it is usually preferred for churning. Milk has the disadvantage of requiring a large quantity to be made use of to produce a small amount of butter; and the residue, called buttermilk, involves a considerable loss, unless

in localities where this finds a use than to be fed to swine. quantity of butter may be ob entire milk. The temperature at w process is conducted is found to have portant effect upon the result, not time required to separate the our also in its quality. The most sui persture is found to be from 50° w the lower degree being the best fo and the higher for milk. During the the temperature rises three or four The process requires some experience to conduct it at the most advantageous butter made from cream is more than in forming, it is apt to be strong-tasted made in less than three-quarters of this soft. The vessel used for this of called a churn, and is made in a variet, some of which are described in the Churn. They are usually preferred o but of whatever material they may be, particular attention is required to keep well as the other utensils employed, in state of cleanliness. Even the making by persons whose hands are liable to by perspiration is objected to; and in al a well-kept dairy, meal, instead of soap, used for washing the hands. The purity is so easily affected, that even the place it is made should be free from all b When formed in the churn, it is remo small tub, and then worked by kneadir the hands with the free use of cold a thoroughly washing it. Little spades a times in part substituted for the hands. operation and beating it with the buttermilk is, or should be, entirely If any remains, the caseine and sugar cor it are subject to decomposition, the fu coming putrescent, and the latter char acetic acid, thus spoiling the butter tended to be kept a long time, it preserved after the method practised and in some parts of Europe. It is by heat into oil, by which the water i is removed; straining the oil, the cas in the cloth; then being put up in it becomes solid, and is subject to ... change. This is the substance calle India. In this country and in Englan process is adopted for its preservation butter fresh from the churn a quanti salt, amounting to an ounce to the pour ed and thoroughly incorporated with is effected to the best advantage by w one-half one day and the remainder Common salt contains, beside the pure of sodium, soluble compounds of magnesia; these impurities it is de remove, which may be done by the whole with water sufficient to them, but not any considerable qu the pure salt, pouring off the lic straining and drying the remainder cloth. In Ireland a mixture of one

s, one of nitre, and two of the best salt, is med instead of salt alone, at the rate of an comes to the pound, and the flavor it imparts is very highly recommended. For the casks, wood entirely free of moisture is essential; and if the pyroligneous acid has been removed from it by boiling, it is all the better; if it remains in the wood it is liable to act upon the salt in the butter, converting it into brine. In packing, care is required to thoroughly incorporate each portion, as it is added to that already in the keg, n that no receptacles for air are left among the better. The surface being made smooth, it is covered with a little salt and a cloth moistened in brine.—The quantity of butter contained in milk is very variable; some yielding not more than 8 pounds to the 100 of milk, and some instances being recorded of more than double this product. Dr. Muspratt possessed an Alderney cow that gave milk so rich, that from 14 gallons, weighing 144 pounds, 101 punds of butter were obtained, being equal to 4.788 per cent. of the milk. From one cow of very good quality a fair average product of butter is one pound per day; but more than 8 times this quantity has been sometimes obtainof for several weeks together. From the general run of cows the yield, however, is much less varying with the pasturage and the feed. The flavor of the butter is more or less affected by the food of the cow, the taste of the onion and the turnip often being imparted to the milk and its products. — As butter is sold, it is sometimes found to be adulterated with a considerable excess of water and of salt. By the investigations of Dr. Hassall it appears that in the alt butter sold in the London market, water and salt are incorporated in quantities varying from 10 to nearly 35 per cent. of the weight.—
The state of New York produces about 1 of all the butter that is made in the United States. In 1855 the total product was 90,293,073 1 lbs., of which Delaware and St. Lawrence counties produced over 4,000,000 lbs each, and Chautauque, Chenango, Jefferson, Orange, and Otsego counties over 3,000,000 lbs. each. By the census of 1850, the product of butter in the state was 79,766,094 lbs. The total value of the butter produced in the United States in 1850 is estimated at \$50,135,000.

BUTTER TREE, a plant of the genus bassia, discovered by Park in the interior of Africa, which yields from its kernels, by pressure, a white, hard, and rich butter, which will keep a year without salt. Other species, which have the same property in a less degree, are found in India.

BUTTERFLY, the popular name of several families of insects of the order lepidoptera, undergoing a complete metamorphosis, having 4 wings, and a tongue changed into a suctorial organ; from the last character they come under the sub-class of haustellata of Fabricius. The term butterfly includes all the diurnal lepidoptera, or those which fly by day, of which the populionida are the principal family; the

other families, as given by Mr. Stephens, are nymphalidæ, lycænadæ, and hesperiadæ. The crepuscular and nocturnal lepidoptera will be noticed under the articles HAWK-MOTH and MOTH. The order was named by Linnaus from the Greek words, λεπις, -ιδος (scale), and πτερα (wings), indicating the characters peculiar to the wings, which are covered on both sides with imbricated scales or feathers, to the unassisted eye presenting the appearance of dust or powder, but under the microscope displaying an arrangement as uniform and characteristic of species as that of the scales of fishes and the feathers of birds. The beauty of this order has made them the special study of naturalists and the delight of collectors, so that their habits, metamorphoses, and structure are very well known; the most interesting and instructive points are connected with their metamorphoses, and these will be more fully alluded to under the article CATERPILLAR. In the lepidoptera, the parts about the mouth are changed into suctorial organs; the mandibles are very much reduced, and the maxilla are transformed, each into a semi-canal, extensile, and capable of being rolled up spirally, which, when united, form the suctorial organ (lingua spiralis); at the base of this organ are 2 very short maxillary palpi, between which and the hairy labial palpi it is sheathed when rolled up; this tongue, if it may be so called, is very long in the butterflies. the caterpillar state these organs are masticatory and not suctorial, adapted for the food of these voracious larvæ, while in the perfect insect the long tongue is necessary to obtain the liquid honey contained in the deep calyces of In some species the anterior and flowers. lateral surfaces of the maxillæ are provided with a considerable number of minute papillæ, which are probably organs of taste as well as of exquisite touch. The eyes are compound. The abdomen has 6 or 7 segments, is attached to the thorax by a very small portion of its diameter, and has no sting nor ovipositor; the . legs are 6 in number, each composed of 5 parts, and the tarsus with 5 articulations; in some genera the anterior pair are short and folded against the chest, and entirely useless as loco-motive organs. The ventral nervous system consists of 7 ganglia, the first 2, the largest, belonging to the thorax; the connecting cords are single, except between the thoracic ganglia. In the caterpillars the ventral cord consists of 11 nearly equal ganglia; during the pupa state the 1st and 2d, and the 3d and 4th, are fused together, forming the 2 thoracic ganglia, which send off the nerves to the legs and wings; the 5th and 6th are also fused into one. Respiration is effected by means of traches extending through all parts of the system, and opening externally by stigmata on the sides of the body; the trunks arising from the stigmata open into two large lateral canals, from which the traches branch off. They have a well-marked urinary apparatus; the Malpighian or uriniferous tubes are usually 6 in number, long,

free, and open into the stomach by 2 excretory ducts; the tubes contain cells, disposed in rows, filled with very fine granules of a dark or brownish color; on the rupture of the cells, their contents pass into the stomach and digestive canal, and are either evacuated with the fæces, or separately as a troubled liquid; it is well known that they emit a considerable quantity of urine, when bursting from their pupa envelope. The two sexes are distinct, and the rudiments of the sexual organs exist in the youngest larvæ, though their development takes place principally during the pupa state; the females lay their eggs, which are numerous and varying in form according to the species, upon such vegetable substances as the larve are to feed upon; the time at which the eggs arrive at maturity coincides with the end of the pupa state, so that the sexes are ready to unite soon after they leave this state; this act accomplished, both sexes soon perish; the spermatic particles are filiform and very active. The wings are membranous and veined, and covered with an immense number of beautiful scales, varying in size, shape, and coloration, implanted by a small pedicle resembling the stem of a feather. An idea of the immense number and exceeding minuteness of these wing-scales may be formed from the fact that Leeuwenhoeck counted 400,000 on the small silk-worm moth; in a piece of modern mosaic work there may be nearly 900 separate pieces in an inch square, while the same extent of surface on a butterfly's wing may contain from 100,000 to 900,000; such is the wonderful superiority of nature's works to the finest specimens of human art. The life of the butterfly is a continued series of changes from the time of its leaving the egg till it becomes a perfect insect. As soon as the caterpillar is hatched it begins to eat eagerly, and increases rapidly in size during this larva state, changing its skin several times; before each change it ceases to eat, remains motionless, and sometimes attaches itself by a slight web to the under surface of a leaf; it gets rid of the old skin by various contractions of the whole body, which separate the dry and shriveled covering on the back, the insect escaping in the course of a few minutes; sometimes the internal lining of the alimentary canal, from the mouth to the extremity of the body, comes away with the skin; the latter takes place most frequently when the larva is about to change into a pupa, and often proves fatal. When the full-grown caterpillar is ready to assume the pupa, nymph, or chrysalis state (for these are synonymous), it ceases to eat, evacuates the intestines, and suspends its contracted body to the under surface of some object, either by its legs, head downward, or by a little rope of silk; after remaining suspended several hours, it changes its skin for the last time in the manner above alluded to; the legs, antennæ, and wings are extended along the body, and the whole is strengthened by the drying of the transparent

In the pupa state the insect does I remains perfectly quiet; the pupa c dopters is called "obtected," because limbs are seen on the outside of the duration of the butterfly in the pur pends much on external circumstance condition happen in the hot period c the perfect insect may appear in 8 it may be prolonged to 2 or 8 week even exist during the whole wint this state the insect is in a condition of the hibernating animals, respiration culation being reduced to their minis first part of its confinement, but be tive toward the close. At the prope pupa case is burst open, and the p terfly suspends itself with its new w ing downward; after these have bec oped fully by active respiration and the insect remains at rest : ərt tir external covering becomes the dermo-skeleton; it is then the p terfly, which sips the honey from th reproduces, and dies.—The butterflie so called, fly only during the day, a usually hold their wings erect; the are terminated by a little club, or are f few genera; they are the only lepidor moths excepted, in which the lower not have a rigid bristle or fringe to upper pair; their caterpillars have feet, and the chrysalis is naked, attac tail, and in general angular. Limprised all the butterflies under the get but Latreille divided them into tw as follows: Section 1 contains all th have a single pair of spines on the pc tremity of the tibim, the wings per when at rest, and the antennas us shaped at the end, but sometimes fili includes the genera papilio and heeps of Fabricius, and is itself divided a 1st, those in which the 3d articular lower palpi is sometimes almost w others distinct, but as well covered as the preceding one, and the hoc tarsi very apparent; some of the footed, all the feet formed for nearly the same in both sex chrysalis in addition to the commattachment is fixed by a silken thr the body, or enclosed occasionally cocoon, and the central partition under wings is closed underneath; footed species the chrysalis is simpl by the tail; the caterpillars are and almost cylindrical; 2d, those the lower palpi have 3 distinct joint the last is nearly naked or with m scales than the preceding one, the the tarsi very small and scarcely proj the discoidal cell of the under w hind; the caterpillars are oval. Ga the sow-bug; the chrysalis smooth, and attached by s

fluid which facilitated the separation

be body. Section 2 is composed of species whose posterior tibise have 2 pairs of spines, and at the end and the other above; whose bwer wings are commonly horizontal when at and whose antennæ often end in a bent aus; the caterpillars, few of which are known, fold up leaves, and spin within this covering a ilken cocoon, in which the chrysalis is ded, smooth and without angular projec--Among the genera of the 1st division of 1 is: Papilio (Latr.), remarkable for nt shapes and beautiful colors; those with red on the breast Linnaus called tes Trees, or Trojans, and those without the Achivi, or Greeks. They are found in the tropical and temperate zones of both heminheres; the caterpillars, when touched, thrust forth from a slit in the 1st segment just behind the head a pair of soft horns joined together somewhat like the letter Y; these are scentorgans, giving out an unpleasant odor, and doubtless designed for their protection against flies and ichneumons. Many have the under wings dongsted, as the P. machaon (Linn.), a European species of large size, with yellow wings spotted and striped with black, the under ones having some blue spots near the posterior edge, one of which is like an eye with red at the internal mgle; the caterpillar is green, with black rings dotted with red, and feeds on the leaves of the curot, fennel, &c. Of the American species, one of the finest is the P. asterias (Cramer.), whose wings expand about 4 inches; it is of a black color, with a double row of yellow dots on the back, a broad band of yellow spots across the wing, and a row of yellow spots near the hind margin; the lower wings are tailed, and have 7 blue spots between the yellow band and the Outerrow of yellow spots, and near the posterior are an orange eye-like spot with a black cente; the spots on the under side are tawny orage. This species is very numerous in July, hovering over flowers, especially the sweetconted phlox; in this and the following months the eggs are laid singly on various umbellate Plants; the caterpillars have been found on the Pusley, carrot, parsnip, celery, and other garden regetables, to which they are quite destructive; they come to their growth toward the end of September, when they become chrysalids, in which state they remain all winter, being transformed into butterflies in May or June following. Another of our common and beautiful species is the P. philenor (Fabr.), with tailed greenishblack wings; the superior wings with 4 or 5 white spots on the margin, most conspicuous beneath; the lower wings highly polished green, with 6 pearl-white spots before the margin, beneath with a broad green border upon which 7 large fulvous spots, each surrounded by a black ring, and marked by a lateral white spot, about 6 small white dots on the inner edge; thorax black, breast dotted with yellow, abdogreen with a lateral double row of whitish dots; the female is the largest, with brown wings and coppery reflections. The P. Turnus

(Linn.), a common American species, somewhat resembles the P. machaon of Europe; the general color of the wings is yellow, bordered with black dotted with yellow, with 5 partial bands of black anteriorly; on the lower wings are 6 yellow lunules in the black margin; the anal angle fulvous edged with white, with 2 or 3 green spots near it; the body above is black, with a yellow lateral line; breast yellow, with 2 oblique lateral black lines. In the mountainous regions of Europe and Asia is found the genus Parnassius (Latr.), the females of which have a horny boat-shaped pouch at the end of the abdomen; the caterpillars make a cocoon of leaves united by silken threads. A well-known species in the Swiss valleys is the P. Apollo (Linn.), white, spotted with black, with white eye-like spots, edged with red on the lower wings; the caterpillar is velvety black, with a row of red spots on each side and one on the back. genus thais (Fabr.) is characteristic of the south of Europe. In the preceding genera the internal margin of the lower wings is more or less concave; in the genus pontia these are dilated beneath the abdomen so as to form a groove. The butterflies of this genus are found in various regions of the globe, and are commonly seen flitting over the fields and moist places, mounting high in the air when they meet a companion; the caterpillar has no protruding tentaculum on the neck, and the chrysalis is suspended by a thread passed across the body. The genus pontia includes the British cabbage butterflies, 9 or 10 species, of a white or yellow color and small size; the general color of the caterpillars is green, and in this state they are very injurious to the vegetable garden. Massachusetts there is a white butterfly, P. olsracea (Harris), which hovers over the cabbage, radish, and turnip beds about the last of May or beginning of June, for the purpose of depositing its eggs; these are fastened, to the number of 3 or 4 on each leaf, to the under surface; they are hatched in a week or 10 days, and the caterpillars attain their full size in 3 weeks, about 11 inch in length, and of a pale green color; they devour any part of the leaf; the chrysalis state lasts about 11 days, so that the perfect insects come out the latter part of July, and are ready to lay the eggs for another brood the chrysalids of which survive the winter and come out in the following May. These butterflies fly low and lazily when about to deposit their eggs, and are easily caught in large numbers by a muslin net; the titmouse and other insect-eating birds devour the caterpillars with avidity. Among the 4-footed butterflies, one of the largest and handsomest genera is Danais (Latr.), including the Fabrician genera of cuplos and idea, in which the antennæ are terminated by a club, the inferior wings rounded and not forming a groove for the abdomen, and the upper wings more or less triangular. D. plexippus (Linn.), a common and large North American species, is of a fulvous yellow color, with dilated black veins, black margin dotted with 160 BUTTERFLY

white, especially in the superior angle of the upper wings; body black, with numerous white dots on the trunk; the larva is ringed with black and white, with 2 slender processes on the anterior and 2 on the posterior part of the body; the chrysalis is of a delicate green color, with golden dots; it feeds on different species of asclepias, and is abundant in the middle and southern states. In the genus argynnis (Latr.), the anterior feet are short and feeble, the under surface of the lower wings is often decorated with silvery and opaline spots, or yellow ones upon a fulvous ground, and the upper surface varied with red or orange, with spots or lines of black or brown; the caterpillars are beset with spines. In England, where there are several species, these butterflies are called fritillaries. The A. Diana (Craner), of the southern states, though not one of the handsomest of the genus, is yet pretty from the contrast of the blackish and pale orange of its upper surface, and from the slender silvery lines of the under surface of the lower wings; its general color above is a dark brown, with a very broad fulvous exterior margin, with a few blackish spots and nervures. The genus melitoa was separated from the last by Fabricius, and is distinguished principally by the yellow spots and checkered appearance of the under surface of the lower wings, and by the larva, which is pubescent, with small fleshy tubercles on the body, which is not armed with spines. The M. myrina (Cramer) is a pretty little species found from Massachusetts to Florida, somewhat resembling the M. selene of Europe; the wings are fulvous, with black spots and undulated lines; below there are more than 30 silvery spots, and an eye-like spot near the base of the inferior ones. In the genus vancus (Fabr.), the knobs of the antenne are short and broad; the palpi are long, curving, and contiguous, and form a kind of beak; the wings are jagged or tailed on the posterior edges; the under side of the lower wings is often marked with a golden or silvery character in the middle; the caterpillars are armed with numerous spines, often live in company, and do not conceal themselves under a web or within a folded leaf; the head of the chrysalis has 2 horn-like elevations and a prominence on the back resembling a nose, presenting rather a grotesque appearance; in both sexes the anterior pair of feet are short and very hairy, and the 2 posterior pairs with double nails. Here belong the tortoise-shell butterfly (V. urtica, Linn.), and the following 3 other British species: the "Camberwell beauty" (V. antiopa, Linn.), with angular wings of a deep purplish black, with a wallowish or whitish board or the posterior a yellowish or whitish band on the posterior edge, and a row of blue spots above; the "peacock's-eye" (V. Io, Linn.), reddish fulvous above, with a large eye-like spot on each wing, on the upper reddish surrounded by a yellowish circle, the under blackish surrounded by a gray circle, with some bluish spots, and under the wings blackish; and the "painted

lady" (V. cardui, God., more properly pl by Mr. Stephens in the genus cynthia, wings red above, varied with black and v underneath marbled with gray, yellow, brown, with 5 eye-like bluish spots on edges. The following American species worthy of mention: The antiopa butterfly () antiopa, Linn.), occurring, as has been seen ale in Europe; this butterfly passes the winter it some sheltered place in a partially torpid state great numbers are sometimes seen crowded to gether in barns, apparently lifeless, with th wings doubled together over the back, be quickly becoming active on exposure to heat; i comes out very early in spring, often before the snow is off the ground, and may be seen and with torn and faded wings, early in sheltered spots; the caterpillars d poplar, willow, and elm of their for which they are found in great numbers earn June; they are black, with minute white dow and a row of 8 brick-red spots on the top c the back; being nearly 2 inches long, and with spines, they were formerly supposes be capable of inflicting dangerous wounds; th first brood is produced in June, and a second August, which become perfect insects winter. The semicolon butterfly (V. incorr gationis, Fabr.) has the wings on the upper aid tawny orange, with brown and black s lower wings generally black above, I reddish, or marbled with light and dark or and a pale golden semicolon on the whence the name; the wings expand fr 27 inches, while those of the precedi 3 to 31 inches; it appears in May, a.m. : August, and is seen till the middle of (in sunny places; the caterpillars live on American elm and linden trees, and on vine, to which they are very destructive. spiny caterpillars are favorite receptac the eggs of the pteromalus vancua, a tiny . cidian parasitic insect of the order hymenope which destroys great numbers of the chrysa in whose bodies the little maggots come to rity. Smaller species are the V. comma (1 and V. progne (Fabr.), which are much expanding from 2 to 21 inches, above of 4 orange, the fore wings bordered and with black, the hind wings blackish posterior with 2 black spots in the middle, and a row bright orange spots before the hind 1 under side marbled with light and de with a silvery comma in the former sp and a silvery L in the latter, on the middle on hind wings; the caterpillars are very alike, being pale yellow, with a reddish white spines tipped with black, and a row rusty spots on each side of the body; they found on the American elm in August. genus nymphalis (Latr.), or apature (Fi contains some very large and beautiful the anterior feet are useless for loc and the abdomen is received in a give formed by the dilatation of the lower the caterpillars are less spiny than in

genera. The purple emperor of A. iris (Linn.), has very strong and and is capable of a high and at flight; instead of the zigzag a common butterflies, the species of secar in a steady manner like a bird from their flying over the tops of ss, they are difficult to capture, and highly prized by collectors; M. as described more than 260 different me of which are found in this counthe genus morpho (Fabr.), peculiar to erica, the antennæ are almost filiform; e included some of the most gorgeous sidoptera. In the genus hipparchia satyrus (Latr.), the antennes end in bby or elongated swellings; the anare short, the hind pairs with double internal margin of the wings excareceive the abdomen, and the middle ell closed posteriorly; the caterpillar nes, but is downy, with the posterior forked. It contains many species, of which are often ornamented with eye-like spots; they frequent dry loer which they fly in a jerking and nner. The H. Andromacha (Hubner), g the southern and south-western the wings brown, with submarginal its, beneath paler, with a series of The H. semidea (Say), about 2. extent of wings, is of a brown color, wings marbled below with black and inhabits the highest summits of the untains of New Hampshire, and, aco Say, seems to be confined to that n the 2d division of the 1st sec-several small 6-footed butterflies to the family of lycanada; the catershort and almost oval, with feet so they seem to glide rather than walk, are themselves by the hind feet and up across their bodies. Here belongs argus (Lam.), which contains many s of an azure blue color, variegated and white. The genus erycina (Lat.), America; polyommatus (Fabr.) is m the beautiful eye-like spots of the ace of the wings, which are generally e in the males, and brown in the fehe genus lycona (Fabr.) includes the ittle species called "coppers" by col-According to A. and O. Speyer, the and erycinada belong to the division oda, in which the anterior legs are of form in the 2 sexes; in the latter, possess cleaning paws; in the former, want claws on the anterior tarsi, and oint ends in a sharp point.—The 2d f diurnal lepidoptera includes the hesperiada, which frequent grassy ing short distances in a jerking man-nce they are called "skippers" by riters. The hesperia malva (Fabr.) he mallows, whose leaves it folds up, ich it is changed; the wings are in**vol.** Iv.—11

dented, blackish brown above, with white dots and spots, beneath greenish gray with similar irregular spots; the caterpillar is gray, with a black head and 4 yellow points on the first ring, which is narrowed; the chrysalis is black, slightly powdered with blue. In the genus eudamus of Dr. Boisduval, is the E. tityrus (Fabr.) of this country; it expands from 2 to 21 inches, and is of a general brown color; the 1st pair of wings with a transverse band and a few spots near the tip of a honey-yellow color; the hind pair with a short rounded tail, and a broad silvery band across the middle beneath. This large and handsome species appears about the middle of June, hovering over sweet-scented flowers; it flies so rapidly and strongly, that it is difficult to take it without injury; the females lay their eggs, singly, on the leaves of the locust (robinia pseudacacia) and R. viscoea; hatched in July, they roll themselves in a covering of the leaves, as a protection from the weather and birds; the full-grown caterpillar is about 2 inches long, of a pale green color, with transverse streaks of darker green, with a red neck and head; each lives in its own case, one end of which is left open for egress at night, at which time it feeds; they remain as chrysalids in their leafy cocoons during the winter; the viscid locust is sometimes completely stripped of its leaves by this caterpillar. Of the genus urania (Fabr.), Mr. Swainson says the butter-flies comprising it "are, perhaps, the most splendid insects in creation. No art can effec-tually represent the changeable and resplendent green which relieves the velvet black of the wings, and which varies with every change of light. The typical species are found in tropical America, where they fly with amazing rapidity, and perform, like their prototypes the swallows, annual migrations."—The butterflies are to insects what the humming birds are to the feathered tribes, the analogy holding good not only in their brilliant colors and manner of flight, but also in the nature of their nutriment, the honeyed juices of the flowers. The happy life of the butterfly, flitting from flower to flower, from one sensual delight to another, resembles that of professed pleasure-seekers, the "butterflies of fashion," whose only object is enjoyment, whose existence is a blank, and whose lives add nothing to the progress of humanity; they are mere useless consumers of the products of other men's labors; a whole generation dies, and is deservedly forgotten. From the transformations of the butterfly, natural theology has drawn one of the most simple, beautiful, and convincing arguments for an existence beyond the grave. We see the airy, brilliant, perfect insect, derived from the crawling, disgusting, and voracious caterpillar—a worm transformed into a sylph a change that no one, unless it had been actually seen, would believe possible. Reasoning from analogy, this emblem of the butterfly has seemed typical of the change of the corruptible into the incorruptible after death; the grovelling human desires are represented by the creeping caterpillar; in the chrysalis we have presented to us the darkness and stillness of the tomb; and in the butterfly we recognize a newborn existence of the spirit, freed from the imperfections of the earthly and finite, and re-joicing in the pleasures of immortality.

BUTTERMILK, the liquid which remains after separating the butter from milk by churning. It consists of the thin portion of the milk with the caseine or curd intermixed and some butter oil. When cream is used for churning, the buttermilk is much richer than if the entire milk is employed, and does not so readily sour. Sweet buttermilk is much esteemed by many as a pleasant and nutritious drink. In Scotland it is brought into the cities for sale like other milk. It is used to some extent in the preparation of a very good quality of bread.

BUTTERS, in chemistry, the name given by the alchemists to certain salts, generally chlorides of the metals, which have the consistency of butter, such as butters of arsenic, antimony, tin, &c. The name is still retained in some of the pharmacoposias. In vegetable chemistry it is applied to fixed oils extracted from vegetable products, which at common temperatures concrete and become solid. Such are the oils

of the nutmeg, cocos, &c.

BUTTES, a village of Switzerland, canton of Neufchâtel. Situated in a narrow valley, and surrounded by high mountains, its position is such that during many months of the year its

inhabitants never see the sun. Pop. 1,200. BUTTISHOLZ, a village and parish of Switzerland, canton of Lucerne. In its vicinity is a remarkable mound called Engländerhübel, or "Englishman's hillock." It is the grave of 3,000 Englishmen, followers of Enguerrand de Coucy, son-in-law of Edward III. and earl of Bedford. This nobleman, in the course of a quarrel with Leopold of Austria, began to devastate the Swiss cantons, when he was defeated by the peasants near Buttisholz, and a large num-

ber of his troops cut to pieces (1375).

BUTTMANN, PHILIPP KARL, a German philologist, born at Frankfort-on-the-Main, Dec. 7, 1764, died in Berlin, June 21, 1829. He finished his education at Gottingen, and in 1788 was appointed assistant librarian to the king of Prussia, but was constrained to turn schoolmaster in order to supply the deficiencies of his salary. Experiencing the want of a good elementary Greek grammar, he published, in 1792, a small one of his own composition, which during his lifetime went through 20 editions. In 1808, when the new university was opened in Berlin, he was appointed one of its first professors. He subsequently published an etymological and an intermediate Greek grammar. The latter has been translated into English by Prof. Robinson, and the elementary grammar by Mr. Edward Everett

BUTTON, an article used for the fastening of clothing and for ornament. Buttons may be divided into 2 classes, those with shanks or

loops for fastening them to garments, without. The manufacture of these ticles involves various processes, so very interesting, and varying accordinaterials used. These are metal, he glass, mother-of-pearl, jet, and wha side the woven stuffs which are covering button moulds. Birmin most noted place in the world for we ture of buttons. In this country it is e ly carried on in Waterbury, Conn., Easthampton, Mass. The principal tories in the latter place were establish 1849 by Samuel Williston and Co., 1 previously owned similar establish Haydenville, in the same state. 11 employment to 250 hands, consume \$75,000 worth of stock, and prodt \$175,000 to \$200,000 worth of butto cently an excellent button has been New Brunswick from India-rubl manufacture of gilt buttons, brass very little zinc is used. This is fure the button-maker in strips, out of w disks are cut by a machine. This pro rapid that one person can prepare gross in an hour. The preparing of the is a distinct branch of trade. They of brass wire, a coil of it being put in chine, in which one end is pushed gradually to a pair of shears, and the cut off in small pieces. It is then I being compressed between the jaws of forms an eye. A small hammer nex the two ends, flattening them, and r the shank ready for use. The labor c ing these to the button is performed by When properly adjusted, a little so rosin are applied to the spot where come in contact, which melts on 1 ed, and on cooling firmly unites to buttons, after thorough cleansing, ready for being ornamented, either a gilded, as may be desired. If the f mixture of silver in solution, and tartar, with some other in stirred together, and the buccous v this preparation. For gilding, great necessary. An amalgam of gold leaf cury is used. This is gently heated, po cold water, and then strained through ther to remove the excess of mercury. tion left in the leather is lved in dil acid, and applied to the but To so great a degree of r carried in Birmingham, tust tures p of gold was made to cover a gross on The thickness of the precious metal hence have exceeded the 214,000 of an i next process is to free them from all the by heat. For this purpose they are the a wire cage within a furnace constructe a manner that the mercurial vapor is c into a vessel containing water, in wl condensed. This is termed drying nishing completes the work. As

ly changing, new forms and always coming into use. sure superseded the gilt buttons. ithout shanks are made of simple n, wood, or other material, with through them, by means of lathes, se of sewing them on.

THOMAS, an English navigator in t of the 17th century, was the sucdson in exploring the N. E. coast serica. He sailed in 1612 with 2 Resolution and the Discovery, gh Hudson's straits, and was the land on the western coast of the pint which he touched was in lat. named by him Carey's Swan's obliged to winter in this region, position near the mouth of a river, by him Nelson's, after the master Every precaution was taken and icebergs, yet the severity of

occasioned much suffering to his is fatal to a few of them. During nmer he explored and named sevn the coast of Hudson's bay, and the lat. 65°, became convinced of of the north-west passage.

OOD. See Plane Tree.

SES, props or supports on the outtall structures, such as bridges heavy superstructure. In Gothic a pilaster, pier, or masonry added ng out from the exterior of a wall. he name of the hinges used for e are cut out from strips of iron ne form of 2 blanks of equal size, ling rollers are each turned over u one edge, so as to form a cylindrir the insertion of the pin which together, and on which the parts ortion of metal which would have inder the whole length of the edge hat the 2 parts may fit into each nproved processes recently introre now commonly made by casting or iron into the form above dethe cast-iron is afterward comrted into malleable.

central county of Georgia, bound-Ockmulgee river, watered by sevand having an area of about It has a moderately uneven surfertile soil. The productions in 124,930 bushels of Indian corn, set potatoes, 24,690 of oats, 4,110 n, and 1,540 lbs. of rice. There mills, 5 grist mills, 1 woollen facries, 12 churches, and 211 pupils ablic schools. The county was nor of Capt. Samuel Butts, an offi-war of 1812. Capital, Jackson. 6,883, of whom 3,076 were

1, Antonio, an Italian poet, born, March 27, 1771, died in Paris,

Aug. 28, 1882. He was educated at Verona and early made himself known by various poems, and also by his novel of "The Two Travellera." When the French revolution broke out, he became a leader of the French party in Italy, and received from Napoleon the appointment of secretary general of the congress of Venice. After the treaty of Campo Formio he removed to France, and became professor of the Italian language and literature at St. Cyr. Two years later he was appointed professor of history and belles-lettres at Mantua, and was subsequently employed in several political offices. He wrote a history of Venice and of Italian literature.

BUTYRIO ACID, one of a number of acids which are produced by the action of caseine in milk upon the sugar it also contains; lactic acid being first formed, and this by its decomposition producing butyric and carbonic acids and hydrogen. Its chemical formula is $C_1H_7O_3+HO$. It is the substance which gives the rank smell to rancid butter. When obtained, as it may be from butter and from sugar, it is in the form of a clear, oily, volatile fluid. combines with bases, and forms crystalline salts, which possess no taste. The compound of this acid and glycerine, also contained in butter, is

called butyrine.

BUXAR, or BAGSAR, a town of British India, in the district of Shahabad, presidency of Bengal, situated on the south bank of the Ganges, about 60 miles below Benares. Pop. estimated at about 8,000. It is a large town, with houses built after the usual Indian fashion of mud and thatch, a few bungalows of somewhat better character occupied by Europeans, a good bazaar, and some handsome mosques. On an eminence near the river is a small fort, now dismantled. It is on the line of the railway under construction from Calcutta to Agra and Delhi. Buxar is celebrated for a victory, which confirmed the British in the possession of Bengal and Bahar, obtained, Oct. 23, 1764, by Major (afterward Sir Hector) Munro, with a force of 857 Europeans and 6,215 sepoys, over an army of from 40,000 to 60,000 men, commanded by Meer Cossim (or Cossim Ali Khan) and Sujah ud Dowlah, vizier of Oude. After an action of 8 hours' duration the Mozul force gave way, and was pursued by the British to a bridge of boats across a stream 2 miles from the field of battle. To save the bulk of his army and treasure, the vizier caused this bridge to be destroyed before the entire body had crossed, thus sacrificing 2,000 of his rear guard, but effectually checking the pursuit. The British loss was 847 men; that of the enemy amounted to about 4,000, beside 188 cannon.
BUXHOWDEN, FRIEDRICH WILHELM, count,

a Russian general of Livonian descent, born Sept. 14, 1750, at Magnusdal, died Aug. 28, 1811, at his estate of Lohde in Esthonia. He owed his first advancement to Count Orloff and to a rich marriage, after which he was engaged for many years against the Turks, and in Italy and Germany. In 1789 he 164 BUXTON

was made general, and in the next year conducted with success the campaign against the Swedes. He commanded a division of the arm in the war against Poland, was in the storming of Praga under Suwaroff, was soon after appointed to the administration of Poland, and still later to the position of military governor of St. Petersburg. He was for a short time in disgrace and retired to Germany, but was restored to his offices upon the death of Paul I. At Austerlitz he commanded the left wing of the Russians, and in 1808 led a successful ex-

pedition against the Swedes.

BUXTON (Lat. Bucostenum), a market town and fashionable watering place of England, in the parish of Bakewell, Derbyshire, situated in a deep valley, 31 miles W. N. W. of Derby and 160 N. N. W. of London. Pop. in 1851, 1,285. It consists of a new and an old town, the former of which is the best built and contains the most interesting edifices. Its chief architectural beauty is the crescent, a range of buildings in the Grecian style erected by the 5th duke of Devonshire, in 1779-'86. They comprise hotels, a ball-room, a library, lodging houses, a bank, arcade, promenade, and a long range of stables with a covered riding gallery 160 yards round. Near by is the "Old Hall" (now an inn), where Mary, queen of Scots, once had her residence. It was built by the earl of Shrewsbury, to whom the custody of the unfortunate queen was intrusted by Elizabeth. The parish church is a modern edifice of great beauty. There are also several chapels, 2 schools, and fine public walks. The chief attraction of Buxton, however, is its mineral waters. They are celebrated for their medicinal virtues, particularly in cases of gout, rheumatism, and diseases of the digestive organs. They are saline, sulphurous, and charged with nitrogen. Their temperature is lower than that of the Bath waters, being about 100° F., and one of the wells has a double pump by which either hot or cold water may be obtained within a distance of a few inches from each other. There is also a chalybeate spring behind the crescent. Baths, both public and private, are numerous, and there is a charitable subscription fund, called the "bath charity," by which from 1,000 to 1,200 poor invalids are annually maintained for one month while using the waters. The fashionable season extends from June to October, and the town is then visited by from 12,000 to 14,000 persons. The vicinity abounds in charming scenery and has many natural curiosities. Half a mile distant is a large and remarkable stalactitic cavern called Poole's Hole, and not far off is the Diamond hill, so named from a profusion of crystals found in its soil which are sometimes dignified by the name of Buxton diamonds. The inhabitants are engaged chiefly in lime-burning and the manufacture of alabaster, spar, and other ornaments.

BUXTON, JEDEDIAH, an English mental calculator, born at Elmton, Derbyshire, in 1705, died in 1775. He could not write, but possessed a great facility in performing mental arithmetical calculations. He seemed sider any thing save with respect w of its constituent parts. He he but remembered nothing of it exnumber of words it contained, wurd counted. If the size of an object we he would instantly declare how breadths it contained. If an in were stated, he would as rapidly: ber of minutes and seconds it was He scarcely had a system of calculation his own obscure explanation, his me clumsy and circuitous, though the was extremely swift. He walked to l have a sight of the king, and was by the royal society, who asked h body whose 8 sides are, respectively, 2 yards, 5,642,782 yards, and 54,965 y many cubical eighths of an inch are the reply, calculated at once without one f ing been written down, was found to t When taken to see Garrick perform I he amused himself by counting the words spoken, and how many each uttered respectively. Except with 1 this mastery of numbers, his intellect inferior to that of ordinary men.

BUXTON, SIR THOMAS FOWELL, legislator and philanthropist, born Hedingham, Essex, April 1, 1786, di residence near Aylsham, Feb. 19, 1845 ceived his education at Donnybrook, a quently at Trinity college, Dublin. A of 21 he married Miss Gurney; by this he became brother-in-law to Mrs. Eliza In 1808 he became a clerk, in 1811 s and soon after principal manager of ery of Truman, Hanbury, and Co., of Locally connected with the manufact trict of Spitalfields, the sufferings of inhabitants were so apparent to him the he took an active part in a public m which £44,000 was collected for th Prison discipline also interested him conjunction with Mrs. Fry and brother-in-law, he personally exami state of British prisons, and pu result of his inquiry. From discipline society, which lea we are many of the evils pointed out. Fr 1837, when he was defeated by Mr. Vi Buxton was member of parliament mouth. For this period of nearly 20 was constant in his attendance, and a speaker. Prison discipline, the amelia the criminal law, the supp the abolition of Hindoo was the abolition of slavery, were se he was always carnest, and b that earnestness, almost eloquent. A cooperated with Mr. Wilberforce on slavery question, and succeeded him == ed parliamentary leader of the party; Lushington, Macaulay, Mackintosh. able liberals, strongly supporting hi a member of the legislature which

colonial slavery, voting £20,000,000 sate the slave-owners. After he left: he employed his leisure in writing a st the African slave trade. His last acpublic business was to participate in a reld at Exeter hall, in 1840, under cy of Prince Albert, which led to mion to the Niger in the following memoirs, which include an auto-appeared in 1848, edited by Mr. ton.

AF, Johann, a German orientalist, n, in Westphalia, Dec. 25, 1564, died win Basel, Sept 13, 1629. He was Basel, and the most eminent orienreek scholar of his day. His most works are the Hebrew Bible with nical and masoretic notes, a Hemar, and a Hebrew and Chaldee lexwas a Calvinist.—Johann, his son asel, Ang. 13, 1599, died there Aug. succeeded his father in the chair of t Basel, and occupied it for 34 years with. The same chair was filled by his his nephew successively during 68 ar, making a combined occupancy of sional chair by the Buxtorf family roken period of 140 years.

DEREH, a little town on the western Bosporus, situated in the midst of ep-bosomed valley. It is the summer of the Christian embassies at Constand its gardens and palaces, not less tural beauty and coolness, make it a nade ground. A group of plane st splendid on the Bosporus,—the

st splendid on the Bosporus,—the mace, distinguished by the regularity itecture, and the extensive gardens Hubsch, are particularly mentioned on that Godfrey of Bouillon encamped his army is not alluded to in the origis of the crusades.

, a province of Japan, in the island of It is separated from Niphon by the an der Capellen, and comprises 23 islnportant.

(buteonina), the 4th sub-family ls of prey, falconida. Beak moderd from the base; tail equal. The gree with the hawks and falcons, suband 3, accipitrina and falconina, in wings short, and the bill crooked from They differ from them both, in hav-I somewhat longer and weaker, and tooth on the upper mandible, which we principal distinctions. There is, ne approximation to this tooth in ouns, ictinia, which has the edge of mandible somewhat angularly fessubdenticulated, and the lower one notched. In the wings of the buz-8d and 4th quill feathers are the longe falcons the 2d; and in the hawks This sub-family is not numerous. It nt 4 genera, ictinia, circus, pernis, Of the first genus, ictinia, there is

but a single species, the Mississippi kite, I. plumbea, which in manners, as in aspect and formation, approaches nearest to the true falcons, flying to a great height, where it remains poised or stationary for a considerable length of time, and again cleaving the air with rapidity in pursuit of the large insects, which, as well as birds and reptiles, form its prey. Its back and wings are slate-blue; its head and belly whitish spotted with brown; its irides fine red. The 2d genus, circus, or harrier, contains several species: the moor buzzard of Europe, C. cruginosus; the ringtail, C. pygargus; the hen harrier, C. cyaneus; the 2 last now generally supposed to be merely varieties of sex and age—both common to Europe, Asia, Africa, and America; the C. melanoleucus and C. acoli of Europe, and C. rahivorus, C. Maurus, C. Swainsonii, and C. Vaillantii, of South Africa. The genus pernis, which is distinguished by having the lorum, which surrounds the eye, feathered instead of naked, contains but one species, the honey buzzard, P. apirorus; a gross misnomer, by the way, since the bird never touches the honey, although it feeds greedily on the larvæ of the wasps and bees whose nests it violates and whose combs it steals, for the purpose of devouring their inmates. It is common to many parts of Europe, and to most oriental countries; but it is unknown in America and Australia. The genus buteo, or buzzard proper, embraces several species, of which the common buzzard of Europe is the type. The chief characteristic is a bluish black bill, darkest toward the point. This bird is common in the fur countries of North America and on the plains of the Saskatchewan. The other principal species are the rough-legged buzzard, B. lagopus, or hawk, peculiar to North America; the B. bacha of Hindostan and the banks of the Ganges; the B. jackal and B. Tachardus, as also the butaëtes Lessonii, of South Africa.—It is well remarked by Vigors, that of all the falconida, the sub-family of buzzards approaches nearest to the family of the owls, strigida. In their slothful habits, their heavy flight, and indeed in their whole appearance, these contiguous groups evince a general resemblance, indicating a corresponding inferiority in the qualities which distinguish the birds of prey. The soft and loose texture of the plumage of both presents a similar affinity, and he adds that the circus, or harrier, in particular, furnishes us with a still more intimate point of resemblance. The feathers that cover the cheeks and ears form, as he says, a sort of rounded collar that rises on each side of the face, thus exhibiting a conformity to the disk, or circular erection of the face feathers, so conspicuous in the owls. The buzzards seek their food late in the evening, and in that respect, as in their low, slow-sailing flight just above the tops of the long meadow grass, which they almost fan with their wings, as they seek in it their prey of small quadrupeds, such as field mice and ground squir-rels, the inferior reptiles, newts, frogs, lizards,

and snakes, as well as the young of game, both winged and fur-bearing, among which they make sad havoc, all the varieties of this sub-family, except the Mississippi kite, which has, as remarked above, the high-soaring and sweeping flight of the falcons, closely resemble the owls. These birds must on no account be confounded with the American vultures, of which there are 2 species found in the United States, the cathartes aura, or turkey buzzard, as it is erroneously called, and the cathartes atratus, or carrion crow, as it is misnamed in the South. These birds are pure vultures, having the bare fleshy necks and carrion habits of that most disgusting class of birds, and do not bear the most remote resemblance, in figure, flight, or habits, much less in structural characteristics, to the family of buzzards, with which, through an almost universal blunder of nomenclature, they have been, it is to be feared, irrevocably confounded.

BUZZARD'S BAY, on the S. coast of Massachusetts, 30 miles long by a mean width of 7, contains the harbors of New Bedford, Fair Haven, Rochester, and Wareham. It is sheltered from the ocean, and separated from the Vineyard sound, by the Elizabeth islands.

yard sound, by the Elizabeth islands.
BYLES, MATHER, a minister of Boston, of considerable note in the last century, and of a good deal of local and traditionary interest in his native place to this day, born in 1706, died in 1788. He graduated at Harvard college in 1725, and, embracing the profession of the ministry, was ordained over the church in Hollis street, in Boston, in the year 1733, and obtained a distinguished position among the contemporary clergy. He was learned after the manner of those times, and was more addicted to literary recreations, and had a keener relish of the later humanities, than was then common among the members of his profession. To his reputation for solid learning and theological research he probably owed the degree of doctor of divinity, which was bestowed upon him by the university of Aberdeen in 1765. At that time these distinctions, now so common, were rarely enjoyed by American divines. As a proof of his recognized excellence in polite letters, we may accept the fact that he was the correspondent of some of the chief poets and authors of Eng-Letters from Pope and Swift were among the relics of his life which were preserved with pious care by his 2 daughters, who lived to an extreme old age. He was himself a votary of the muses in a small way, and a volume of his miscellaneous poems was published in 1744. He gave an early expression, too, to the loyalty which distinguished his character through life, in a poem on the death of George I. and the succession of his son, in 1727, when he was but 21 years of age. He also tempered the bereavement which Governor Belcher had suffered in the loss of his wife in 1734, by such consolation as an elegiac epistle could convey. It is not likely, however, that his name would have been preserved to this time,

had his reputation depended on the r his poetical effusions. The cheerful flo spirits, and frank gayety of his conve seem to have been something out of t mon way, and to have left an enduring the memories of that generation. was tinctured with no asceticism. He one who refrained "when God sent a hour," and the lively sallies of his sprig agination, always kept within the limi corum, were restrained by no fear of his personal or clerical dignity. Man sayings are still preserved in the popul and probably many more are bestowe him to which he had no claim. They often rise above the dignity of the paro or pun; but they have had the effect o ing his contemporaries and making h remembered. That his vivacious tempe however, was not the effect of specific l character, was proved by the personals he submitted to rather than be false to ! of public duty. During the heat and of the times preceding the revolution the political agitations, of which Bost then the centre, he maintained his alleg the British crown with unfaltering However mistaken his ideas on this su now be esteemed, no one can doubt the ty of his loyalty, nor the high sense under which he acted. After having be pily united with his parish for more years, his connection with it was d 1776, he being then 70 years of age, ou of his political opinions, and his utter them in the pulpit by prayers for the k royal family. The next year he was in town meeting as an enemy to the and subsequently arrested, held to bai and condemned to imprisonment in a gua and to subsequent exile. This senter afterward commuted, probably throu respect felt for his spirit and a kindly a tion of his humor, to confinement in I house. This was carried into effect, and detained a prisoner in his house, with a before the door. This severity was soon for a while, and afterward renewed. On stories told of him is, that wishing to l errand done at a distance, he asked the to undertake it. The man objected ground that he could not leave the d guarded; on which the doctor volunte be his substitute, and accordingly was a some one in authority, in powdered w cocked hat, with a musket on hisshould ing up and down before his ho guard over himself. His release from soon followed, on which occasion, all these changes of treatment, he said been "guarded, regarded, and of Dr. Byles was of the Cowhich formed the staple or the establishment of New England. Like his faith, remembering the p had left a hereditary grudge

d England in the minds of the descendants of the Puritana, he had no very friendly feelings toward the establishment, or the offshoots it had sent forth into this country. When King's chapel, yet standing, was built in 1749, Dr. Byles was looking at the lower range of windown, which are small, deep, and nearly square. "I have often heard," said he, "of the canons of the church, but I never saw the port-holes before." This may be taken as a fair average of the mote which have kept their place in the popular memory.—Dr. Byles spent the rest of his days in Boston, well respected even by those who most disapproved his politics, until he died at the age of 82. He retained his loyalty to the st; and bequeathed it to his 2 daughters, who lived in his house, then on the skirts of the town, but now not far from its territorial centre. Probably his Britannic majesty had no more loyal subjects in his dominions than these 2 ladies, who remained living monuments of the feelings, habits, and opinions of the last century until far into this. The survivor of the 2 died s late as 1837. — His son, MATHER, who began life as a Congregational minister, and was for several years settled in New London, Oun, became an Episcopalian in 1768, and was for several years rector of Christ's church, He left Boston with the tories, and died rector of a church in St. John's, in 1814. He was a man of good parts and learning, and received the honorary degree of D. D.

from the university of Oxford.

BYNG, GEORGE (VISCOUNT TORRINGTON), an English admiral, born in Wrotham, Kent, Jan. 77, 1663, died in London, Jan. 17, 1733, served in the British navy as midshipman until his 18th year, when he joined the land service. He was in the famous Tangiers regiment, in which, at the age of 21, he became lieutenant. Boon after he again joined the navy, and was severely wounded in a conflict between the Phœmix and a Cingalese pirate in the East Indies. Hewasin Sir George Rooke's expedition, and was made rear-admiral for his services at the battle of Malaga. Having been previously elected member of parliament for Plymouth, he was, in 1721, created Viscount Torrington, and finally mised to the office of first lord of the admiralty. BYNG, JOHN, British admiral, born 1704, died March 14, 1757, 4th son of the preceding, known to posterity by the misfortunes which closed his life. In 1756, Minorca

being menaced by the French, Admiral Byng sppointed commander of a squadron consisting of 10 ships of the line, with which he Inditerranean, finding his equipments inaderocceded to its relief. After arriving in the Pate to the service required, he sailed for Gibreliter to get provisions and refit. He now berned that the French had succeeded in landing 19,000 men in Minorca, and had reduced and the whole of the island. A council of war agreed that relief would be impossible winst the overpowering French fleet. Byng, Meretheless, did endeavor to establish communication with the garrison, which, after an indecisive engagement with the French fleet, proved unsuccessful. For his conduct in this business he was superseded, and on his return home was brought to a court martial. After a long trial he was found guilty of cowardice in the presence of the enemy, and sentenced to be shot, but recommended to mercy. In spite, however, of all done in his favor, his political enemies prevailed, and, March 14, 1757, he was executed at Portsmouth. The unanimous verdict of posterity has acquitted Byng of the charge for which he was condemned, and has imputed to the ministry of the day the infamous crime of sacrificing him for the purpose of diverting popular odium from themselves for their inert conduct of the war. Byng might not have been the worthy successor of Blake or Anson, but his ships were unseaworthy, illmanned, and worse equipped. His fault, at the most, amounted to excessive caution; but his unpopularity seconded the schemes of intriguers.

BYNKERSHOEK, Kornelis van, a Dutch jurist, born at Middelburg, in Zealand, in 1678, died April 16, 1743. His most important work, entitled Observationes Juris Romani, in which he investigates the origin, traces the progress, and delineates the character of the Roman jurisprudence, consists of 8 books, and was published in 2 parts in 1710 and 1733.

BYRD, WILLIAM, colonel, a distinguished cit-

izen of Virginia, born about 1650, died in 1743. He received a liberal education in England, possessed one of the largest libraries in the colonics, and, having a large property, lived in a splendid style, unrivalled in Virginia. He was a member of the council in 1682. In 1699, when about 300 French Protestants arrived in Virginia, flying from persecution in France, he extended to them the most generous assistance. In 1723 he was one of the commissioners for establishing the boundary line between Virginia and North Carolina. He was a member of the royal society, and wrote for the "Philosophical Transactions" an account of a negro boy dappled with white spots.

BYRGIUS, Justus, properly Josst Bürgi, a Swiss inventor, born at Lichtensteig, in Switzerland, Feb. 28, 1552, died at Cassel, Germany, 1633. He had great mechanical ingenuity, with talent for the exact sciences, and, in 1579, was invited to Cassel and attached to the observatory Having constructed a celestial in that city. globe which attracted the attention of Rudolf II. emperor of Germany, and having been invited by that monarch to enter his service, he removed to Vienna in 1604, where he continued to reside until the year preceding his death. He drew up certain tables, which were similar to those afterward published by Napier in his "Canon" of logarithms. Byrgius invented a number of useful instruments, among which were a sector and a pendulum clock; but the invention of this latter is attributed by some to a later period.

BYROM, John, an English poet, born at

Kersall, near Manchester, in 1691, died in the latter city Sept. 28, 1763. His literary reputation depends upon his pastoral of "Colin and Phosbe," which appeared in No. 603 of the "Spectator," beginning, "My time, O ye muses, was happily spent." He was a graduate of Trinity college, Cambridge, a member of the royal society, studied medicine for some time in France, had his property withheld from him by his relatives on contracting a marriage of which they did not approve, and eked out for several years a precarious existence as a short-hand writer, until an estate devolved on him by the death of his brother. His works were published in Manchester in 1773, in 2 vols. 8vo, and a new edition, with an anonymous sketch of his life, appeared at Leeds in 1814.

BYRON, GEORGE GORDON NOEL, lord, an English poet, born in London, Jan. 22, 1788, died at Missolonghi, Greece, April 19, 1824. His father's family traced its origin back to the times of William the Conqueror, being descended from the ancient Norman family of Biron. On his mother's side he was related to the royal family of Scotland. His grandfather, John Byron, was a British admiral. His father, Capt. Byron, who led a life of such dissipation, that he obtained the name of Crazy Jack Byron, died abroad a few years after the birth of his son, after having deserted Byron's mother (Catharine Gordon), whose wealth he had squandered in such a degree as to make it necessary for her to retire with her son to the neighborhood of Aberdeen. He received the first rudiments of education at Aberdeen, and his mother placed him afterward in the school of Dr. Glennie at Dulwich. The death of his greatuncle brought him into possession of the title and the family-seat, Newstead abbey, in the county of Nottingham, and he was placed under the wardship of the earl of Carlisle, and sent under his direction, first in 1801, to Harrow, where the late Sir Robert Peel was among his classmates, and subsequently, in 1805, to Cambridge, where he rebelled against the authority of the university, and where poetry became his chief study. In his 19th year, on leaving Cambridge, he came out with his first public effort, "Hours of Idleness," which was severely handled by the "Edinburgh Review." In 1809 the poet hurled against his adverse critics a caustio satire, which, under the title of "English Bards and Scotch Reviewers," produced a strong sen-sation at the time, although Byron himself regretted its publication afterward. In 1809 he published "Imitations and Translations from the Ancient and Modern Classics, together with Original Poems." While still at Harrow he fell desperately in love with Miss Chaworth, whose father had been killed by Byron's great-uncle in a duel; but the lady married Mr. Musters, one of her older admirers. This exasperated the poet, and to drown his sorrow he plunged into dissipation. For some time he lived a life of revelry, and delighted in aquatic sports and kindred exercises, but from dancing he was

excluded by his was to him a co HP 2 His health, which was always describe, from his mode of life; his fortune, came deranged, while, above all, his re disposition allowed him no repose. He to politics for variety's sake, and hav his 21st year in 1809 he was ent. seat in the house of lords, but his had already sunk to so low an ebb ti not one single peer ready to introduce cording to the custom of that assembly, had to perform the ceremony himself. He tool his seat on the opposition benches, his brief presence in the house he made in behalf of the Roman Catholics and unriotous weavers of Birmingham, which e but little talent for parliamentary oratory. left England in 1809, and in company varied Mr. J. C. Hobhouse (now Lord bruton), visited Portugal, Spain, and Grand and gave a picturesque description travels in his "Childe Harold," who peared in 1812. It was during this journ he swam across the Hellespont. On his to England he attracted much a society. His high descent, his inter-tenance, his chivalric bearing, his li the romance of his travels, combined to round him with a prestige which fascinates imagination of poetical ladies, who were bons in his honor, while even more intellects felt disposed to pay he genius. The enthusiasm rose high. servile admirers turned their collars down his fashion, and Byron collars, knots, ties, into fashion. Yet the whole nature of the . was so totally at war with English ideas of ventionality and propriety, that the con and prosaic portion of society kept him as they would from some former, while church people shumed they would a cannibal. In the public he was personally identified with his p creations, which, indeed, all bore more striking resemblance to himself. succession appeared the "Giaour," the "of Abydos," the "Corsair," "Lara," of Abydos," the "Corsair," "Lara," sina," the "Siege of Corinth," his "!
Napoleon," and various other Jan. 2, 1815, he married Miss lady of considerable attainmen ... but as ste governed by the dictates of co D sense of propriety, as he was wilcur w by the impulses of passion and i was separated from her in the successions of after she had borne him a daughter, the A whom he loved poetically with the devotion of his vehement nature. His tion from his wife produced a great the odium of which chiefly fell upon ron, who in 1816 left England for the k with the determination of never Involved in pecuniary difficulties, heart bleeding from a thousand immunitary real wounds, Byron presented at ti

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icture of woe and despair. There was g too in his own gloomy reflections dered to the morbid cravings of his aun. and upon his own miseries he o gloat with exulting delight. and generous disposition, he took a pressure in attitudinizing as a misanand while in this strange mood he travhis usual lordly manner over the most parts of the continent. Having spent ner of 1816 in Switzerland, he afterward his abode at Venice, and subsequently at Pisa, and Genoa. While astonishing Venetians by his dissipations, he would es withdraw from his companions, and t in study and conversation with the u the neighboring cloisters. He lived ma in the most intimate relations with nnamorata of his, the beautiful Counzuoli, whose imaginative nature was atto the poet in the same proportion as aic temperament of his wife had been d. When the father and brother of , the counts Gamba, were expelled venna for political reasons, Lord Byron whole family under his protection, and to Pisa, whither the countess followed hile here he lost his illegitimate daughra, and his friend Shelley, whose tragic luced a deep impression upon his mind. he residence at Pisa, too, proved o me Gambas, he removed to Genoa, by all remained until July, 1823, when bathy with the cause of Greece drew that country. In Greece he threw all gy of his nature into the cause of Grety. He presented £12,000 to the overnment, and organized at his own a brigade of Suliotes, his intention lead an expedition against Lepanto. or even to control the unruly dispo-own soldiery. This want of success you his mind, and in February he was with an epileptic fit. A few months d, while still in feeble health, he ven-t on horseback in a rainy day. Inflamand death followed. His last words wife, my child, my sister!—you -you must say all." Public mourning or him for 21 days in Greece, and his served in the mausoleum of Missolonghi. ietro Gamba subsequently escorted his to England, where they were buried wstead abbey.—After Byron's second from England, he published, beside of Childe Harold, the "Prisoner

y "Manfred," "Beppo," "Mazepyon Juan," "Marino Falieri," "Sar' the "Two Foscari," "Cain,"
and Earth," "Werner," the "Isl-

Christian and his Comrades," and poems.—Lord Byron was not sucs a dramatist. His plays contain fine

but lack movement and action for in his poetry we find but little of

keen and true analysis of character. His heroines are creatures of the fancy, and best greater resemblance to poetical houris than to real women. His heroes are so many Lord Byrons in disguise. This concentration of individuality imparts a singular power and fascination to his characters. The glories of antiquity, great battles for freedom, popular upheavings against tyranny, Goethe and Napoleon, the sombre majesty of the Alps and the terrible splendor of Vesuvius-all things and men, thoughts and associations, grand and colossal—attracted in turns his insatiable imagination. But while his head was glowing with intoxicating imagery, his heart was that of a British peer, and with all his poetical sympathies for humanity and liberty, his pride of birth created a gulf between him and what he considered lower mortals. The poetical effusions of such a strangely blended and picturesque individuality could not but produce a strong impression upon the literary world. Especially to the young and the enthusiastic, there was an irresistible charm in his muse. The magnetism of his presence, the glitter of his rank, the romance of his life, the circumstances of his death, contributed powerfully to awaken interest in his behalf, not only in England, but all over Europe, and especially in Germany, where his morbid tone found many admirers and imitators.—He was succeeded in his title and estate by his cousin, George Anson Byron, born March 8, 1789. who is a rear admiral on the reserve list, lord in waiting to the queen, and vice-president of the royal naval school. Beside his only legitimate child and heiress, Lord Byron left another daughter in Italy, to whom he bequeathed £5,000 on condition of her not marrying an Englishman.—Dowager Lady Byron, Baroness Wentworth (Anna Isabella), born May 17, 1792, was the poet's wife from Jan. 2, 1815, to Jan. 15, 1816, when the separation took place. Lord Byron gave the following description of her during the time of their engagement: "Yesterday a very pretty letter from Annabella, which I answered. What an odd situation and friendship is ours! without one spark of love on either side, and produced by circumstances which in general lead to coldness on one side, and aversion on the other. She is a very superior woman, and very little spoiled, which is strange in an heiress—a girl of 20—a peeress that is to be in her own right—an only child, and a savante, who has always had her own way. She is a poetess, a mathematician, and yet withal very kind, generous, and gentle, with very little pretension. Any other head would be turned with half her acquisitions, and a tenth of her advantages." Lady Byron was the only daughter of Sir Ralph Milbanke Noel, and succeeded, Nov. 12, 1856, to the barony of Wentworth. She is noted for her mental attainments, and for her liberal disposition. In 1856 the sout 2000 to the Now Particular In 1856 the sout 2000 to the Now Particular In 1856 the sout 2000 to the Now Particular In 1856 the sout 2000 to the Now Particular In 1856 the sout 2000 to the Now Particular In 1856 the sout 2000 to the Now Particular In 1856 the sout 2000 to the Now Particular In 1856 the south 2000 to the Now Particular In 1856 the south 2000 to the Now Particular In 1856 the south 2000 to the Now Particular In 1856 the south 2000 to the Now Particular In 1856 the south 2000 to the Now Particular In 1856 the south 2000 to the Now Particular In 1856 the south 2000 to the Now Particular In 1856 the south 2000 to the Now Particular In 1856 the south 2000 to the Now Particular In 1856 In 1856 she sent \$350 to the New England Kansas emigration society, and she figures frequently as a contributor to philanthropical enterprises.—Hon. Augusta Ada, only child of Lord and Lady Byron—"Ada, sole daughter of my house and heart"—born Dec. 10, 1815, married, July 8, 1835, William King, earl of Lovelace, died Nov. 27, 1852. Ada inherited the restless disposition of her father; and although of good natural abilities, of a mathematical turn of mind, and excelling particularly as a chess player, she delighted in speculating in railway shares and on the turf. The insolvency of the attorney whom she employed disclosed the circumstances to her husband, who paid all her liabilities; but the unpleasantness which grew out of the discovery preyed upon her mind, and accelerated her death.

BYRON, John, a British admiral grandfather of Lord Byron, born Nov. 8, 1723, died April 10, 1786. While still very young he accompanied Anson in his voyage of discovery round the world, and was wrecked on the Pacific coast, and conducted by the Indians to Chiloe, where he remained till 1744. He was nicknamed by the sailors "Foul-Weather Jack," on account of the many hardships he had endured. In 1758 he commanded 3 ships of the line, and distinguished himself in the war against France. Subsequently he was employed by George III. on an exploring voyage between the Cape of Good Hope and the southern part of America. After touching at Madeira and the Cape Verd islands, he proceeded to Rio de Janeiro, and then sailed to the southern part of the Atlantic ocean, visited the Falkland islands, where he met Bougainville, who was founding a colony there, and subsequently directed his course northward to the island of Masafuero. Thence, sailing westward, he discovered the isles of Disappointment and King George's island, and directing his course northward, discovered 2 more islands, which he called Danger and Byron's islands. Sailing by the Carolines into the Chinese seas, he passed through the straits of Banca to Batavia, and in May, 1766, arrived in England. In 1769 he was appointed governor of Newfoundland. In 1778 he watched the movements of an armament sent out by France to assist the Americans. In July, 1779, he fought off Grenada an indecisive engagement with the commander of that French armament, Count d'Estaing, and on his return to England, withdrew from active service.

BYSSUS (Gr. βυσσος), a Scripture word variously translated fine linen and silk, and supposed by some to have been cotton, and by some the asbestus fabric. There appear to have been 2 quite different qualities of the byssus; one, the finest, used for the habit of the priests, and the other for that of the Levites. As now used, the term is applied to the hairy-like filaments that proceed from the base of the foot of certain molluscous animals, as the pinna and the mussel, and which serve, by being attached at the other extremity to rocks and other substances, to hold the animal in its place, and at the same time to allow it some motion. The name was also applied to a variety of obscure filamentous

plants that are now generally supposed to young shoots of different species of funging BYSTROEM, Johan Niklaa, and sculptor, born Dec. 18, 1783, at linthe province of Wermeland, the busts of women and children. 10. king of Sweden, whose statue he have a compresented him with a house and a stungave him commissions for the statues of a number of Swedish sovereigns, some of adorn the public squares of Stockholm, the royal palace. For the last 30 years officiated as professor at the Stockholm acan BYTOWN (name changed to Otta)

BYTOWN (name changed to OTTA 1854), the capital of Carleton co., Can It is situated on the Ottawa river, and ed by railroad with Prescott, and by the canal with Kingston. It is diversified a lower town, and comma nunnery, 4 branch banks, a tenegon, 7 insurance agencies, printing factories, machine shops, founderies, gas and about 50 stores. Five newspapers ar lished here, and the town is one of the flourishing in Canada West. The value sessed property in 1856 was \$3,3 large trade, chiefly in lumber, is carried means of the river and canal. At the wextremity of the city are the celebrated dière Falls, spanned by a suspension I which unites Upper with Lower Canada town was designated by the hogove in 1858, as the future periada. Pop. 10,000.

a. Pop. 10,000.
BYZANTINE EMPIRE, called als Roman empire of the East, the E empire, and the Greek empire. death of Theodosius the Great, A. I the division of the great Roman empir East and West became permanent. ern portion, with Constantinople, the Byzantium, for its capital, was bequ the elder son Arcadius, with whom Byzantine emperors properly commenced Byzantine empire beginning A. D.: A. D. 1453, with the Mohami dan c of Constantinople. The Eastern inception consisted of 2 prefectures the Orient, including 5 dioceses, Oriem U Egypt, Asia, Pontus, and Thrace, and emu all the Asiatic regions toward the Eu independent Armenia, and the Afri of Egypt to the great Syrtis; 2, use pres of Illyricum, with the two dioceses of donia and Dacia, embracing the ca lower Danube, the whole of ancient Hellas, Crete, and the islands of t In the Crimea, the Byzantines occupied cities of Theodosia, Chersonesus rear Se pol, Eupatoria, and Dandaca. marcation between the the West was the Danuoe, from a in Pesth down to where it receives the and a line drawn from the town of Scodn Scutari, on the Adriatic, toward the Syrtis off the coast of Cyrenaica in 1

ras guardian for the young Arcadius; overthrow of the former by Stilicho, r of the Western empire, the eunuch i later, Gainas, the murderer of succeeded to the premiership. During nd the Goths ravaged Greece. of Gainas in a civil war excited by the empire was ruled by the imravaricious wife of Arcadius, Eudoxia, in 404. The young son of Arcathemius administered the government il 415, and then his sister, the prin-, became regent. Pulcheria asname of Augusta, governed the emand excluded her brother from any n in its administration. Under a successful war was carried on Persians, and the Western empire wred by the Byzantines for Valentinian ceded the province of Western Illyria, Pannonia, Dalmatia, and Noricum, nse therefor. On the other hand cedonia were ravaged with im-Attua and his Huns, and Pulcheria ed to purchase peace by the payment tribute to the barbarians (448). odosianus was drawn up in this fter the death of her brother, Pulcheilled to the throne, 450. She was the de who ever attained to this dignity. her hand to the sexagenarian senator whose prudence and valor averted the f the Huns from his empire. Shelter a in this reign to the Germans and is, who fled before the Huns. Marnaded Attila to wreak his thirst for I and destruction upon Italy and the tead of the East; yet the yearly tribute d by Attila from 500 pounds of gold a piece of territory to the south-Danube was ceded to him. Pulin 458, and Marcian reigned 4 years weath. Leo I., a Thracian of obscure appointed emperor (457-474). His u against the Vandals was unsuccesscoronation by the patriarch of Conle is said to be the earliest example of tion by the Christian clergy. Leo Romans against the Vandals, and reat popularity and influence at Rome, ded even to nominating their rulers. mild, Leo II., aged 8 years, was his but died shortly afterward. Zeno ian (474-491) succeeded him. Basive him away from his capital in 475, himself emperor. At this period a place which consumed the library of noble, containing 120,000 manuscripts, s of classical literature. By the us fellow-provincials, Zeno regained in 477. In his reign serious and outes arose about the nature of

tween the Monophysites and the or-Zeno sided temperately with the lat-

d the Henoticon (482), which re-

stored an outward harmony to the church He protected his empire against Theodoric and his Goths by presents, and by recommending them to march upon Italy (488). At his death, his widow Ariadne married, and raised to the throne, Anastasius the minister (491-518). A new enemy appeared in the Bulgarians, against whom he protected the peninsula in which Constantinople lies by building across it the celebrated "long walls," 12 miles in length. His favorable disposition toward the Monophysites caused formidable insurrections against his rule. After his death, Justin I., a Thracian, and commander of the body-guard, was nominated emperor by the soldiers (518-527). He adopted his nephew Justinian as his heir. He persecuted the Monophysites, and received the powerful support of the orthodox clergy. Justinian I. succeeded him (527-565). Under the reign of this emperor, the Byzantine empire attained the summit of its glory. The general Belisarius overthrew the empire of the Vandals, and acquired the whole of northern Africa to the Mediterranean, repelled the Persians at the Euphrates, conquered Sardinia, Corsica, and the Balearic isles (588), and de-fended Constantinople against the Bulgarians. Narses followed up the victories of Belisarius, destroyed the Ostrogothic power in Italy in 555, and restored Italy and Sicily to the sceptre of Byzantium. Italy was governed by a Greek exarch, whose residence was Ravenna, the last capital of the former emperors of the West. Industry flourished, the silk culture was introduced into Europe, civilization progressed, and intellect developed itself, in the long reign of Justinian. The code of civil law, then drawn up, has been ever since a leading authority among the jurists of all civilized nations. The race-course factions of blues, greens, reds, and whites, now acquired a dangerous license. As the emperor sided with the blues, the greens rose in tumult, and were only put down after committing fearful ravages in the capital. The Monophysite quarrel also agitated the empire. In 540 the consular government of the capital was abolished, and about the same period the last schools of the pagan philosophers in Athens were shut up by imperial command. His successor was the unfortunate henpecked Justinus II. (565-578). The Lombards wrested from the Byzantines a large part of Italy (568); Justinus was unsuccessful against the Persians, and the Avars plundered the provinces on the Danube. The Byzantine government in this reign allied itself for the first time with Jesabool, khan of the Turks, beyond the Caspian sea, against their common enemy, the Persians, and received an ambassador from him. Tiberius II. reigned 578-582. He purchased peace from the Avars, and was fortunate against Chosroes I. king of the Persians. His general, Mauritius, who gained his victories for him, was appointed his successor, or the Osear. Flavius Tiberius Mauritius reigned 582-692. He reinstated Chosroes II. upon

the throne of Persia, after that potentate had been driven away by his subjects, and made an advantageous peace with him. His army mutinied as he was marching against the Avars, who had increased the tribute payable to them by treaty. The soldiery elected Phocas as his successor, and the "green" faction of the metropolis rose and murdered Mauritius and his sons. Phocas reigned 602-610. The peo-ple grow weary of his tyrannical rule, and called to their aid the governor of the imperial præfecture of Africa. The governor sent his son, Heraclius, who took Constantinople, and Phocas was torn in pieces by the multitude. Heraclius was made emperor (610-641). The Persians conquered from him Syria, Palestine, and Asia Minor, and pressed him so hard that he thought of leaving Constantinople forever, and making Carthage his capital. From this step he was dissuaded by the patriarch, and between 622 and 627 he had recovered all, including the holy cross which Siroes, the Persian monarch, had taken as booty from Jerusalem. In 626, the Avars made an unsuccessful attack upon Constantinople. From this time forth we hear nothing more of the wars between the Byzantine empire and the Persian monarchy. The Arabs now appear as Persian monarchy. the most formidable foe of the Greeks. The Saracens conquered the country bordering on the Euphrates, Syria, Judæa, and all the Byzan-tine possessions in Africa, 635-641. The Byzantines were weakened by their intestine religious controversy about Monothelitism, or the one will of Christ. In Servia and Croatia a number of Slavonic kingdoms arose, which soon threw off all dependence upon the empire. Constantine III., son of the preceding, died soon; his step-brother, Heracleonas, lost his throne by an insurrection, and was banished. Constans II. became emperor (642-668). In his reign the empire lost Cyprus and Rhodes (650) to the Saracens, and suffered defeat at the hands of the Lombards in southern Italy. Constans became the victim of a conspiracy at Syracuse, in Sicily, where he was endeavoring to protect the coasts and islands of the Mediterranean from the Saracens. He published the Typos, an edict intended to quiet the controversy between the orthodox and the Monothelites. Pope Martin I. condemned the edict, and was thrown into prison by the eastern emperor. He was succeeded by his son, Constantine IV., Pogonatus (668-685). In 672 the Moslems besieged Constantinople by sea for the space of 5 months. They were forced to retire by the terrible Greek fire, which set their vessels in a blaze. They repeated the attempt seven years in succession, with the like result. On the other hand, the government was compelled to pay tribute to the Bulgarians, who had conquered and founded a kingdom in ancient Mosia. Justinian II., Rhinotmetus, or shorn nose, succeeded his father (685-711). His tyranny brought about an insurrection which cost him his nose and cars and an exile to the

Crimea. During his exile, Leoutius and Tiberius III., two generals, reigned. Justinian returned and was assassinated. With him the race of Heraclius became extinct. Philippieus Berdanes, his general, succeeded him; next came Anastasius II., whose troops mutinied as he was leading them against Soliman. He resigned his authority and took refuge in a cloister. Leo III., the Isaurian, reigned 717-741. He best back the Arabs from Constantinople, but not until after they had ravaged Thrace. image controversy now became violent. sided with the innovators, and ordered the removal, and afterward the destruction, of all images in the churches. This Iconoclasm roused the island population of the Cyclades to revolt, but Leo repressed the sedition. This position of Leo weakened the Byzantine power in Italy, and the year 728 saw the last of the exarchate of Ravenna. His son Constantine V. succeeded (741-775). He was as much of an Iconoclast as his father, and a more fortunate general. The dislike between him and the monks was mutual. He shut up many of the monasteries and convents, because he alleged that the inmeter were sluggards and corrupted the people. reconquered from the Arabs a part of Syria and Armenia, and destroyed their fleet off In 759 he drove out of the Pelopon Cyprus. nesus 200,000 Slavonians, and wound up his successful career by victories over the Bulgarians. Leo IV., Chazar, son of the precedis reigned 775-780.—The boundaries of the pire were well maintained against numero Constantine VI. succeeded under the guardianship of his mother Irene. She was a image-worshipper, and assembled the second council of Nice, whereat 870 bishops condemned the Iconoclasts. Eventually she put out her son's eyes (797), and reigned in his stead. St now desired to marry the new emperor of the West, Charlemagne; but this idea of reuniting the Eastern and Western empires was so repugnant to the popular opinion, that an insurrection took place which ended in her dethronement (802). Nicephorus, the high treasurer, was proclaimed emperor. He made a treaty with Charlemagne, which constituted the free territory of Venice as the limit of the 2 empires. became tributary to Haroun al Rashid, and fell in an engagement against the Bulgarians (811). To him succeeded Stauracius and Michael L They fought unhappily against the Bulgarian Leo V., the Armenian, a reputable general, ceeded (813). Crunnus, king of the Bulgaria devastated Thrace, took Adrianople, and k siege to Constantinople, when a sudden death surprised him. Lee then drove the barbariess back and forced them to a 80 years' truce. He ruled ably, but his dislike to the use of ima raised up enemies and cost him his life (83 Michael II., the Stammerer, reigned 820-63 In 824 the Saracens in Spain took away from the empire the island of Crete, and in 827 the Aglabate Saracens seized Sicily. The reign witnessed the loss of Dalmatia to the Bulgarians. The public-spirited Theophilus, son of the preceding (829-842), fought long and bravely against the Arabs, but on the whole, fruitlessly. After some reverses he died of grief, leaving Constantinople much strengthened and embellished. He favored the Iconoclasts. His son, Michael III., succeeded (842-867), at first under the guardianship of his mother Theodora. She put an end forever to the Iconoclast controversy, by the restoration of images which was ratified by the third counal of Nice (842). In his reign the Russians first appear as enemies of the empire, and the petriarch Photius quarrelled with the pope, Nicholas I., and laid the foundation for the separation of the eastern and western churches. The Manichman and Paulician schismatics were persecuted. After Michael came Basil L, the Macedonian (867-886). He founded the Macedonian dynasty, which lasted until 1066. In 877 he published a compilation of laws, completed by his son, which, under the nume of Basiliska, governed the jurisprudence of the empire. In foreign relations, he beat the Serious in the East, and crossed the Euphrates trimphantly, protected Dalmatia and Ragusa from the Aglabites, and reestablished the Byzanthe power in Apulia and Calabria, which the Stracenshad occupied. On the other hand, the Stracens completed the conquest of Sicily by the capture of Syracuse, and ravaged Pelopon-Mens. Leo VI., the Philosopher, son of the preeding, reigned 886-911. He was an author, and a patron of the arts and sciences; but his reign was disastrous in a military point of view. He called in the aid of the Turks against the Surscens; this showed the former the way into the Byzantine empire, and they captured the island of Samos for themselves. In the same way, Leo called in the aid of the Huagarians against the Bulgarians. The Russians appeared before Constantinople with a large fleet, but effected nothing. The Lombard dukes took from the Byzantines the greatrepart of what remained to them in lower Italy. The Arabs took Thessalonica, but were driven back by Ducas; Leo then sent an army into Asia, which penetrated into Mesopotamia, and achieved an advantageous peace. After Leo came his son Constantine VII., Porphyrogenitus (912-959), in partnership with Alexander, who soon died. His mother, Zoe, then administered affairs, and protected the empire from the Bulgarians for 7 years. Romahe Lecspenus (919) then obtained a share in the government, and brought along with him his sons. They fought against the Bulgarians, Hungarians, and Russians. In 944 they were obliged to retire and give place to the empress Helen, who governed while her husband Constantine studied. At this period Russian and Hangarian princes came to Constantinople, were baptized, took Byzantine women in marriage, and spread Christianity in their native landa. His son, Romanus II., succeeded (959-963). Crete was recaptured from the Saracens

by Nicephorus Phocas, the emir of Haleb was forced to pay tribute, and the Russians were driven back. Nicephorus I., Phocas, succeeded (963-969), after marrying Theophano, the widow of Romanus. He was defeated in Sicily, but recaptured from the Saracens Syria and Cilicia, and the island of Cyprus. His wife had him murdered, and gave her hand to his successor, the victorious general, Joannes Zimisces (969-976). He fought victoriously against the Arabs in Asia Minor, and against the Russians and Bulgarians in Europe. He extinguished for a time the political independence of the latter. His successor, Basil II., son of Romanus, reigned 976-1025. For 11 years he was occupied in combating 2 rebellious generals, Bardas Phocas and Bardas Sclerus. In 1018 the Bulgarian kingdom was annihilated and Bulgaria became a Greek province, and remained so until 1186. It was he who put out the eyes of 15,000 Bulgarian prisoners and sent them back to their king, who fell down dead at the spectacle. Constantine VIII., his brother, reigned 1025-'28. Then followed in succession Romanus III. (1028-'34), and Michael IV. (1084-'41), both husbands of Zoe, the daughter of Constantine VIII. Michael V. succeeded, and was driven out by the people because he would not marry Zoe. In 1042 Zoe and her sister, Theodora, were joint empresses, until Zoe married Constantine IX. (1042-'54). During this period the Russians, Petcheneges, and Arabs ravaged the empire. The Seljook Turks Arabs ravaged the empire. appeared as formidable enemies, and the Norman adventurers wrested from the Byzantines all their remaining possessions in lower Italy, except the city and territory of Otranto. After Constantine, Theodora again became empress (1054-56). In 1054 occurred the total separation of the Greek from the Latin church. With Michael VI., Stratioticus (1057), the Macedonian dynasty became extinct. Isaac Comnenus, the first of the Comneni, reigned 1057-'59. To him succeeded Constantine X., Ducas (1059-'67). The Seljook Turks invaded the empire on the east and south, and the Scythian Uzes on the north. The latter were defeated. Romanus IV., Diogenes, reigned 1067-'71. He defeated the Seljooks under Alp Arslan in 8 campaigns in Cilicia and Cappadocia, but in the 4th was taken prisoner. During his absence Michael VII. was proclaimed emperor (1071-'78). The Servians and Seljooks invaded the empire. The latter conquered almost all Asia Minor. Michael resigned, and his successor, Nicephorus III., a Botaniates (1078-'81), had a stormy reign, troubled by numerous rival claimants to the imperial dignity. His general, Alexis Comnenus, dethroned him, and reigned 1081–1118. His administration is remarkable for its relations to the western crusaders. Guiscard, the Norman duke of Calabria, advancing the claims of his relative Michael VII., defeated Alexius in Epirus; but he gained brilliant victories over the Petcheneges and the Kumani. The encroschments of Mohammedan power, and the dangers that threatened all Christendom therefrom, now drew the attention of western Europe to this complication of affairs. The Turks had invaded Bithynia, and Alexis called the courts of the west to his aid. Pope Urban II. authorized the preaching of the first crusade. The first host of crusaders left an unfavorable impression upon the Byzantines. With the second a treaty was concluded. Alexis was to furnish a number of troops, and the crusaders were to hold the provinces reconquered from the Moslems as fiefs of the empire. Neither party kept faith. Bohemond, prince of Antioch, laid siege to Dyrrachium, but shortly afterward concluded a peace with the emperor. His son, Joannes Comnenus, succeeded him (1118-'48). He fought victoriously against the Seljook Turks in 1120, and reconquered many towns. He defeated the Petchenegnes, who had crossed the Danube, and the Hungarians. In 1131 he recaptured lesser Armenia. He was succeeded by his son, Manuel Comnenus (1143-'80). He was victorious over the sultan of Iconium, and over Raymond of Toulouse, the Christian prince of Antioch. In 1147 a new army of crusaders arrived at Constantinople, to the consternation of the inhabitants. In 1142 Manuel conquered the island of Corfu from the king of Sicily, in retaliation for an invasion of Greece by the latter. Between 1180 and 1188, reigned Alexis Comnenus II., son of the preceding, and Andronicus Comnenus. Andronicus was the last of the Comneni. Isaac II., Angelus (1183-'95). In his reign the king of Sicily undertook the conquest of the Byzantine empire, but was even-tually beaten back by Isaac. The Bulgarians recovered their independence (1186). He was dethroned by Alexis III. (1195-1203). Isaac's dethroned by Alexis III. (1195-1203). Isaac's son, Alexis the Young, supplicated the aid of the crusaders, then assembled at Venice, and obtained it in return for a promise to pay 200,000 marks of silver. The crusaders captured Constantinople, July 18, 1208, and restored Isaac, who with his son was put to death the next year. The crusaders again captured the city. April 9, 1204, and a short tured the city, April 9, 1204, and a short period of confusion ensued, during which a number of persons were emperors for a few months or days. The Latin empire of Romania was established (1204-'61), and Count Baldwin of Flanders elected first emperor. The European possessions of the empire were divided into 4 parts: 1. The imperial domain, including onefourth part of the city of Constantinople (the other 3 parts being divided between the French and Venetians). Thrace, some castles on the Asiatic coast, the islands at the mouth of the Hellespont, and the suzerainty over the feudal dependencies of the empire. 2. The kingdom of Thessalonica was carved out for Boniface, marquis of Montferrat, which included Macedonia and a part of Greece. 8. The republic of St. Mark's obtained the coast lands of the Adriatic and the Ægman, a portion of the Morea, many of the Cyclades and Sporades, the islands of Crete and Negropont, and Gallipoli on the Thracian Many other fiefs were given to r. of which the principal were Athens and Bosotia, and the prin caris, who had been elected emperor ate in Constantinople, established his Nices, whence the Greek empire of ceived its name. It consisted of Mysia, Ionia, and part of Lydia. On eastern shores of the Black sea, from the river Phasis, the Grand Comp pire of Trebizond arose. The (princes, Alexis and David, declared dependence at the fall of the old Byz pire, and one of their successors as imperial title. In Epirus and Ætolis Angelus established a Greek princij turning to the history of the principal of the Byzantine empire, we find Greeks called in the aid of Joannes, l Bulgarians, who defeated Baldwin him prisoner. Henry, brother of succeeded him (1206–16). He fo equal success against Lascaris, et Nicæa, and brought the king of garians to terms. He gave he fices of trust to the Byzantines, and them against the oppressions of clergy. Peter de Courtenay succe (1216-'21). He was captured by Th dependent prince of Epirus, in a va to take Dyrrachium for the Venyounger son, Robert, succeeded him, During his reign, Joannes Vatatzes, emperor of Nices, and Theodore, th Epirus, reduced the territory of the ors of Romania almost to the peninsus Constantinople stands. John de Bri lar king of Jerusalem, next took ti power as regent for Baldwin II. The Bulgarians made an alliance wi peror of Nices and threatened the of the Latin empire. John de Br Constantinople, and the allies tu arms against each other. Be reigned unaided (1237-'61). Baldy men, arms, and money of the pote nations of the West, but they made n response to his entreaties. The cowas that Michael Palæologus, Nicæs, with the help of the Gem which was driven to the Greek a hatred of Venice, obtained poesessi stantinople, July 25, 1261. The Ge rewarded by liberal mercantile privi Latin empire of Romania now va though many of the Latin principa as the duchy of Athens, survived un downfall of the restored Byzan in the 15th century. With clogus (1261-'82) commenced are the Palssologi, which endured until a conquest. By his endeavors to r

Latin churches he gained the hatred y and people. Andronicus II., his ded (1282-1328), and immediately u www Greek ritual. To defend his empire the Turks, he took into pay a body of roops (1303); the Catalans beat back, and then began to pillage Greece down upon estates got and held by of the sword. He abdicated in favor and a the 1 grandson, Andronicus III. (1328-'41). t unsuccessfully against the Turks, who Hew a and Nicomedia in 1339, and pluntook in coasts of Europe, and made a barren with the pope, the king of France, and western powers, against the Moslems. us sud, Joannes V., succeeded him, and reigned 1941-'91. It cost him a civil war of 10 years to rid himself of his guardian, Joannes Omtacuzenus. During this war the Turks first aquired territory in Europe. Gallipolis was seized by them in 1357; in 1361, Sultan Amunth took Adrianople, and made it his residence. Joannes appealed to the pope to aid him in his extremity, offering to reunite the estern with the western church, but to no purpose. In 1873, Amurath conquered Macedonia and part of Albania, when Joannes signed a truty, acknowledging himself to be the vassal of the sultan, and covenanting to pay tribute. Philadelphia, the last possession of the Byzantimes in Asia, capitulated to Bajazet, successor to Amurath. When the sultan ordered that a Mohammedan cadi should reside in the ancient metropolis of Christendom, and that the emperor's son should accompany him in his wars, Jounes Palæologus died of a broken heart. Manuel, son of the preceding, escaped from the court of Sultan Bajazet, where he was a hostage, at the news of his father's death, and was prodaimed emperor (1391-1425). Bajazet laid siege to Constantinople, but raised it to levy war upon the Hungarians, returned in 1397, but made peace through fear of another westen crusade. In 1400 he made a third attempt mon the metropolis, but the invasion of Tamerline, which threatened the existence of the Turkin empire, recalled Bajazet into Asia, and saved the Byzantine empire for a space. Manuel recovered some lost ground while the sons of Bajazet were quarrelling. Yet, in 1423, Sultan Amurath II. appeared before the walls of Constantinople, and employed cannon, for the first time in eastern wars. Another fraternal quarrel on the part of the Turks brought about the return of peace. Joannes VI., son of Manuel, succeeded (1425-'48). Seeing that he was unable to defend his empire from the Turks, he endeavored to effect a reconciliation between the eastern and western churches, on the condition of a new western crusade in his favor. For this purpose he was present at the council of Perara, which was presided over by Pope Engenius IV. The reunion was solemnly pro-claimed there, but it did not take effect in the In 1444 Sultan Amurath reduced the Byrantine empire to the city and suburbs of

Constantinople, and out of generosity allowed the emperor to end his days in peace, on condition of paying tribute. His brother, Constantine XI. (1448-53), was the last of the Byzantine emperors. He made a last appeal to the princes of the West, and to the prince of Georgia, whose daughter he had married. The western potentates were too much wrapped up in their narrow jealousies of each other to feel acutely upon any question which had only a general interest for them. Giovanni Giustiniani, a Genoese nobleman, with 2,000 Genoese and Venetian auxiliaries, and 4 Genoese ships of war, were the sole results of Constantine's appeal. The total garrison did not exceed 8,000 soldiers. The Turks appeared before the walls of Constantinople on April 6, 1453, with an army of 400,000 Moslems. Thev were not able to break the chain which protected the entrance of the harbor, but Sultan Mohammed II. had his fleet carried on rollers 10 miles overland, and launched into the inner gulf. Both sides fought bravely, but after a siege of 58 days, Constantinople fell on May 29, 1453. Constantine died heroically in the breach. The city was delivered over to rapine, and the bulk of the inhabitants sold into slavery. The brothers of Constantine, Demetrius and Thomas, held out for a short season in the Morea, which was taken by Mohammed II. in 1458. The rest of the Latin principalities, which had acknowledged a loose feudal subjection to the Byzantine emperor, had all fallen by 1460. The island of Lesbos was taken in 1462. David, the last of the Comneni, and the last emperor of Tre-bizond, submitted, 1461. Thus perished an empire which had kept the light of letters and civilization burning, though attacked by a hundred foes, through all the night of the dark ages, when western Europe, including even Italy, lay prostrate at the feet of barbarian conquerors, and was a howling waste, in which the law of the strongest alone prevailed.—The Byzantine empire was divided for administrative purposes into prefectures, dioceses, and themes or provinces. The power of the emperor was absolute. The emperor claimed to inherit the rights of the Roman emperors, and to be the lawful ruler of the West. He was anointed and crowned by the patriarchs of Constantinople. As has been seen, the influence of women, favorites, and the clergy, was great. The ceremonial of the Byzantine court was carefully elaborated, and rigidly maintained. The consulate became extinct in the 6th century, and the senate and the last forms of municipal self-government in the 10th. The emperor was advised by a council of state, in which none found admittance except at his pleasure. The functionaries of government were divided into many classes, as at present in Russia, and each class had distinctive privileges. Eunuchs enjoyed high rank, and to them was intrusted the immediate attendance upon the holy person of the emperor. The major domus of the East was called first curopalates, and afterward protovestiarius. The

body-guard of the emperors began in the 10th century to be composed of Germans, Saxons, and Northmen. The latter were called Varings. The commandant of the fleet was the megas dux.—The original sources of Byzantine history are the Byzantine historians themselves, who wrote in corrupt or later Greek. Only a few of these have been translated into any of the modern languages. Of the authorities in the modern tongues, we cite Le Beau, Histoire du Bas Empire, also translated into German; Zinkeisen, Geschichte Griechenlande; Fallmerayer, Geschichte des Kaiserthums Trapesunt; Gibbon's "Decline and Fall of the Roman Empire;" Finlay's "History of Greece and Byzantium" (London, 1854), the most recent and best outborier in the Familiah language on and best authority in the English language on this period; and for the Latin settlement in the East, Buchon's Histoire des conquêtes et de l'établissement des Français dans les états de Pancienne Grèce (Paris, 1846). Du Cange's work in Latin, Historia Byzantina (Paris, 1680), was, before Gibbon's work, the only authority generally consulted. An interesting new work on the Byzantine empire, is Muralt's Essai de chronographie Byzantine (St. Petersburg, 1855).

BYZANTINE HISTORIANS, a series of little read but important lower Greek authors, who wrote between A. D. 893 and 1453, the era of the capture of Constantinople by the Turks. Of these, Procopius is the best known, and is the only one who has been translated into English. Anna Comnens, daughter of the emperor Alexis I., who wrote a history of her , father's reign in 15 books, is also well known. A collection of the most important of them was made and published at the expense of Louis XIV., in 36 volumes (Paris, 1648-1711). The title of this work is Corpus Scriptorum Historia Byzantina. The Greek text is accompanied with a Latin translation and notes. editors of this work were the Jesuits Labbé and Maltraif, Pétau and Poussines, the Dominicans Goar and Combess, Prof. Fabrotti, Charles du Cange, Allacci, the librarian of the Vatican, Banduri, librarian at Florence, Boivin, the royal librarian at Paris, and Bouilliaud, a mathematician. Another edition, with additions, was published at Venice in 23 volumes, 1729-'33. Some, not included in either collection, have been published separately since. Niebuhr entertained a high opinion of the value of the Byzantine historians in a general history of mankind, and projected a new edition of them, which was commenced in 1828, under the title Corpus Scriptorum Historia Byzantina, Editio emendatior et copiosior (Bonn). This edition has been in progress of publication continuously since that time, and is not yet completed. Bekker, the two Dindorfs, Schopen, Meinecke, and Lachmann, are the principal editors.

BYZANTIUM, a city on the shores of the Bosporus, founded by ancient Greek colonists on a part of the site of the modern 'Constantinople. It was originally settled by a band of

Megarian colonists, 658 B. C., but it stroyed by Otanes, the Persian satrap, in of Darius Hystaspes. After the defeat of sians at Platma (479 B. C.), Pausanias, the of the confederate Greeks, re-colonized i body of Dorians and Ionians. From t erogeneous constitution lispute and Spartan and At s alwa ed within the walls. THA HEA 1 vantageous position soon made it us mercial importance. It obtained pothe corn traffic between the shores of t ine and Greece and Egypt, and its so abundant as to procure for use Byzantium the name of the Golden remained under the regency of the Lac ans until Cimon captured it for the At It soon returned to its original allegians cibiades, the Athenian, got possession the aid of the Athenian party within t 408 B.C.; but it was retaken by Lysander cedæmonian, 405. Xenophon, with the of his 10,000 men, passed through it way homeward. In 890 B. C. Thrasyb pelled the pro-Lacedemonian oligarchy, tablished the power of the democracy. tium put itself at the head of a league ing of Rhodes, Chios, Cos, and Caris, view of throwing off the Athenian acy. This they effected, and Byzant mained for a space entirely independe the commercial importance of Athens d that of Byzantium was augmented. Who ever, Philip of Macedon besieged it, it r to its Athenian allegiance, and called u parent city for succor. Owing to the an donian eloquence of Demosthenes, the granted. Phocion, the Athenian, co Philip to raise the siege. The grateful tines erected a monument in honor of th and granted the rights of By to the Athenians. During the pr siege, the city was saved from c prise, by a flash of light which mami northern horizon and betrayed the pri the besiegers. A crescent was stamped on zantine coins in honor of this miracule and when the Turks took Constantino 15th century, they adopted this munical bol as their own national device. In t of Alexander the Great, By. In edged the Macedonian sup sensions of Alexander's gene . By sided with Antigonus against Post with Lysimachus against Seleu this period much exposed to t on the land side. The Gauls maue at zens to tribute, which caused the upon the commerce of the w a. by upon all vessels passing thre This tax brought them into a v WILL and of Rhodes, 221 B. C. Attaus, k gamus, sided with the Byzantines; P of Bithynia, with the Rhot ns. were successful, and c

dened. Ancient writers give a very bad char-ager to the Byzantines. Their morals were not above the standard of other large seaport towns. They preferred the sound of a flute to that of a war trumpet, and when Philip of Macedon was ieging the place, the Byzantine general, Leo, found that the only means of maintaining the surage of the Byzantines, and holding them to their duty, was to plant a range of cook-shops along the ramparts. Byzantium was fortunate in allying itself with Rome from the first against the Macedonian kings, Antiochus of Syria, and Mithridates of Pontus. In acknowledgment of its fidelity, the Romans allowed it to remain afree confederate city. In consequence of some popular disturbances, the emperor Vespasian aprived the citizens of their civic liberties. prived the citizens of their civic liberties and them a governor. On being remonstrated with he answered that the citizens had "for-gotten how to be free." In the civil war between Pescennius Niger and Severus, Byzantium sided with the losing claimant. The emperor Severus besieged the town, which defended itml for 3 years, and then capitulated from famin. The chief citizens were put to death and the massive walls razed to the ground. Subseuntly he repented of this severity, embellishof the town, and gave it the name of Augusta Autonina, in honor of his son Antoninus. Carstalls restored some of its former civic privileges, but Gallienus gave it up to pillage, and massacred many of the citizens. The inhabitants repelled the invading Goths in the time of Claudius II. Byzantium was the last refuge of Licinius in his war with Constantine. After the surrender of the city to Constantine, he resolved to build a new city on the site of the old. and make it the capital of the Roman empire. Thus Byzantium merged into Constantinople, A. D. 830. Dionysius and others give the old city a circumference of 40 stadia.

BZOVIUS, ABRAHAM (Pol. Bzowski), a Polish scholar and divine, born at Proszowice, near Miechow, in 1567, died Jan. 31, 1637, in Rome, where, at the request of Pope Paul V., he spent several years of the latter part of his life in the Vatican, as librarian of the Virginio dei Ursini, and actively engaged in literary pursuits. He was a member of the order of the Dominicans, one of the most voluminous writers of his age, gained for himself a high reputation as professor of philosophy and theology at Milan and Bologna, and crowned the labors of his life by continuing the celebrated ecclesiastical annals of Cæsar Baronius, who had left them off at the year 1198, and completed only 12 volumes. Bzovius carried them to the year 1532, in 9 volumes, from the 18th to the 21st volume, which were published first in Bologna and afterward in Rome.

C

the third letter in the English alphabet, as it is in the Latin, and in those of all the modern European languages. Its form is derived by Scaliger from the Greek kappa (x), by dropping the upright stem, and rounding the \(\) into 0. Suidas calls it the Roman kappa, and Montincon, in his Palaographia, gives several bras of the k which approach nearly to c. Others derive it from the Hebrew caph (3), which has acarly the same form, but is inverted, since the Hebrews and Latins read in opposite direc- Others, from its position in the alphabet, derive it from the Hebrew gimel (1), and make is affinities with the Coptic gamma, the Ethiopic geneel, and the Russian glaghol. In the early Latin language O held the place which is now occupied by G, as appears from the inscriptions on the Duilian column raised in the Roman from about 200 B. C., in which we find masistratus for magistratus, leciones for legiones, mendo for pugnando, and exfocient for effufinat. Thus Ausonius says, gamma vice functa Fine C. The C also sometimes represented Greek kappa, since in the same inscriptions Ourtaciniensis occurs for Karthaginiensis; but function was more frequently fulfilled by the letters qu; thus the Greek Kai, Kapkaipe, Kepper, became the Roman que, querquerus, and furquedula. The tendency of the western lanhas been to soften the oriental articulaion, and the gamma or C, after being softened by **VOL. IV.—12**

being brought forward in the mouth to the front palate, and becoming K phonetically, superseded the qu which had been common in old Latin words. The Latins made no further phonetic change of C, always during the most flourishing period of their literature pronouncing it like a kappa. If they had given the sibilant sound of C in the enunciation of the word Cicero, the Greeks in adopting the word would have written it with a sigma. Modern languages, however, have carried the process on further. The English has softened the aspirated O (ch) in church, chime, chivalry, and the French still more in chevalerie, chemin; while the unaspirated O has become a pure sibilant, as in circle, cent, cycle. Thus the English teach comes from the Latin doceo, and the English please and the French plaisir from the Latin places. Some words, however, have not followed this phonetic change from the original pronunciation. Thus the modern Scottish kirk still embalms the sound of the old English church. Kindle and candle show that the pronunciation of cinder is perverted, and the patois of north-western France still preserves the hard sound of C in *chemin*, and so links it to the English *come*. But though the Latins did not soften the C to a sibilant, they did worse. Having aspirated it into K, they next dropped it, preserving only the aspirate to mark the hiatus, as tracto, traho; kerdona, herdona; and this same process is noticeable in the cognate languages; thus collum (Lat.), Hals (Ger.), halter (Eng.). In French the phonetic soften-ing of the U is traceable in the word Karolus, till the 9th century, then Carolus, and afterward Charles; and the comparatively modern use of the cedilla records the further progress of the C is also interchanged with some change. other letters beside the Q and K with which it is cognate; as with P in pepo, coquo, cook; columba, palumba; while prox(cs)imus has sup-planted propsimus, but not props and propius. The phenomenon of the disappearance of C occurs in sacramentum (Lat.), serment (Fr.); lacrima (Lat.), larme (Fr.); and in many other cases for purposes of euphony. As a numeral, C signifies 100, CC 200, and so on. It was used among the Latins to stand for Cæsar, Caius, Cassius, centum, and condemno; and on account of the last use it is called litera tristis by Cicero. CC stood for calumnia crusa or concilium cepit; coss. for consules; Cl. for Claudius; C.V. for Centum Viri; and C.R. for Civis Romanus. An Italian C stands for canto. In French, a single O stamped on money marks it as the issue of the mint of Caen, and CC as the issue of the mint of Besaucon.-C, in music, the name of one of the notes of the scale. It is the tone with which the so-called natural scale begins, and was designated by Guido ut, a name subsequently changed to do by the Italians. considered the key note, and its pitch is regu-lated by tuning forks. It is also a character used for the signification of time.

CAABA, or KAABA, properly a quadrangular structure, applied particularly to a celebrated temple at Mecca. According to Mussulman tra-dition, the first Caaba was built by the angels on the model of the pavilion which surrounds the throne of the Most High; the second was built by Adam, with whom it was removed to the skies, where it still exists in a right line above the Caaba of Mecca; the third was built by Seth, but perished in the deluge; the fourth, which now exists, was built by Abraham and Ishmael. The name is specially given to a small cubical oratory in the temple in the centre of a large space surrounded by galleries. This is the point toward which the prayers of all Mussulmans are directed. On one of its sides is Inwrought the famous oval black stone, believed to be one of the precious stones of paradise, and to have been brought by the angel Gabriel to Abraham, when he was constructing the Caaba. At first of a dazzling whiteness, it has grieved and wept so long for the sins of the human race that it became gradually opaque, and at length absolutely black. It is an object of profound veneration to the pilgrims who resort to the sacred city. This inner Caaba is surrounded with a veil of black silk, and is opened but 3 times a year. The temple of the Caaba is older than the time of Mohammed, previous to whom it was the Arab pantheon, and contained all the idols of the nation.

OABAL (Fr. cabale), a word signifying club or association, imported into the English lan-

guage after the restoration. The ministers of Charles II. of England, whose names were Clifford, Ashley, Buckingham, Ariington, and Lauderdale, were called by some opposition wit the cabal ministry, as the initials of their names, ranged in the order given above, form the word cabal.

CABALA. This word is of Hebrew origin, and signifies reception, and in Hebrew literature it designates the religious and philosophical dostrines which the Jews say Moses received by divine communication on Mount Sinai, and which he afterward delivered traditionally to Joshu, and Joshua handed down in the same manar to the 70 elders. This system of doctrines was also called Masora (tradition), because it was given or transferred. It was not allowed to be written, that is, in the form of direct statement. It is supposed, however, to be enigmatically embodied in all the Old Testament or Jewish scriptures, especially in the Pentateuch. Se highly do some comparatively modern writen (as Henry More) value the traditional science, which is supposed to underlie the Pents teuch, that they pronounce the latter a foolish and melancholy conceit, unless there be some key by which a higher but secret meaning may be extracted from it. Cabala is also used to designate a period in the progressive development of Jewish literature, which commenced about A. D. 800; also to designate a sort of divining by means of passages of Scripture, but this is a corruption of the term, and constitutes no per of the Jewish idea of the Cabala.

CABALLERO, FERMIN AGOSTO, a Spanish statesman, born July 7, 1800, at Barajas de Melo, in the province of Cuenca. He first settled as an advocate in Madrid, but on the subversion of the constitution in 1824, he reired to Estremadura until the death of Ferdinand VII. in 1833, after which he edited the Bolata del Comercio, which was suppressed, but respected under the new name of the Eco Comercio. He was elected to the cortes, whe was a leading member of the opposite the ministry of Martinez de la Rosa. Suffer he was a supporter of Mendizal favored all the innovations attempted syminister, especially the suppression of con He was a member of the constitutional c tion in 1837.

CABANIS, PIERRE JEAN GEORGE, a Fre physician and philosopher, born at Cosme the department of Charente Inferieure, Jens 5, 1757, died at Rueil, near Paris, May 5. He was the son of the barrister Jean Cabanis de Salagnac, who married a verview lady, and became an eminent agric Having left the bar to superintend the of his wife's extensive domains, the fat came intimate with Turgot, the econ was then the administrator of Lim afterward became the celebrated in Louis XVI. The son, though very most was a wayward student, and made but progress in his early studies at Brives.

is father took him to Paris, where he by years in reading the works of ansophers, the writings of the fathers reh, and those of modern philosoas Rousseau and Voltaire. Locke

favorite with the young phi-1115 lather wished him to return e end of 2 years, but Massaki, the op of Wilna, then in Paris consulting losophers on the best method of re-Poland, took an interest in young nd engaged him as his secretary. ining 2 years in Poland, Cabanis re-'aris, where Turgot introduced him lelvetius and her brilliant circle of Auteuil, and where he afterward quainted with D'Alembert, Diderot, Franklin, Jefferson, Baron d'Holother men of eminence. He also imate with Boucher the poet, author se des noirs, and undertook to transinto French verse. His father wished ose a profession, and his health being e, he was anxious to study medicine. the pupil of Dubreuil, and followed idies with the same impetuosity he manifested in his favorite pursuits.

 received his degree of doctor of hen the revolution broke out in s espoused the popular cause. , physician and the friend of Mira-.791 he published an account of the decease of the great orator. At a I, during the stormy wranglings of ition, Condorcet obtained privately is, his friend, the poison he intend-, in order to avoid a more violent also expressed a desire that Cabacollect his writings, and superintend Cabanis married Charlotte he sister of Field Marshal Grouchy, e. Condorcet. In 1789 Cabanis pub-Observations on Hospitals." In the the republic (1795) he was appointor of hygiene at the central school, or of clinical instruction at the med-He had much to do with the ren of medical instruction in the Paris, Montpellier, and Strasbourg. published his reports to the council the organization of medical colleges, er on the "Degree of Certainty in cience." He also published a paper evolutions of Medical Science." ns he developed the first germs of "The active principle of life and animated bodies," says Cabanis, calls the 'soul,' is one, but it in the organs according to differ-re and of function. It digests nver, and thinks in the brain."

re and of function. It digests the breathes in the lungs, secretes aver, and thinks in the brain." The wiple" or animating force of Stahl, the leading doctrine of medical sci
Montpellier school, had much influmind of Cabanis, although his sys-

"Medical and tem led to opposite conclusions. moral science," says Cabanis, "have a common basis in the science of the physical organism of human nature. We must look to physiology for the solution of all their problems, and the common basis of all their truths. All ideas, sentiments, and passions, goodness and virtue, are derived from physical sensation. The source of all morals is in the human organization or physical organism, on which depend our faculties and modes of feeling." Condillac had explained all the actions of the soul by sensation; Cabanis wished to complete this system of philosophy by investigating and explaining the origin and nature of sensation. "All sensibility resides in the nerves, and therefore," says Cabanis, "all the moral affections and intellectual faculties reside in the nerves. Impressions are received on the peripheral nerves and carried to the nervous centres, where they excite thought, feeling, and reaction in the organ-ism. Distinctions between physical and moral nature are therefore vain, the moral faculties having their origin in the physical." Such was the reasoning of Cabanis.—Being a friend of Sieyès, he was noticed by Napoleon Bonaparte on his return from Egypt, and on the day after the 18th Brumaire, Cabanis, in the name and on behalf of the legislative assembly, wrote the proclamation recommending the French nation to accept the revolution which had just been accomplished. Under the consulate he was named a member of the senate; but, disappointed by the reactionary policy of Napoleon, he withdrew from public life, and devoted his attention exclusively to science. Being a member of the institute of France, he had already read several portions of his work, "On the Relations between the Physical and Moral Nature of Man," to that learned body; and, in 1802 he published the work complete in 2 vols. 8vo, under the title of Rapports du physique et du moral de l'homme. The style being clear and brilliant, and the ideas consonant with the prevailing notions of the day, the book had great success in France, when first published; but the philosophy which it attempts to establish on the basis of the physical organism, and the identity of nervous matter with sensation and the vital principle, has lost its hold on the public mind. Cabanis himself, before he died, public mind. Cabanis himself, before he died, had modified his views on many points; and in a private letter to a friend, published by Bérard. of Montpellier, 24 years later, wrote an excellent essay on "Primary Causes," in which he states that it is impossible for human reason to conceive the possibility of the existence of the universe, without the idea of intelligence as a first cause in the government of events.

CABARRUS, or Cararras, a south-western county of North Carolina; area, 350 sq. m.; pop. in 1850, 8,747, of whom 1,685 were alaves. The surface is uneven, and in some places mountainous; the soil of moderate, but not uniform fertility. It is watered by branches of Rocky river, an affluent of the Yadkin. It

produced gold in the early part of the present century; but its wealth now is chiefly in live stock, grain, cotton, and tobacco. In 1850 it produced 418,320 bushels of Indian corn, 76,946 of wheat, 2,844 bales of cotton, and 408 lbs. of tobacco. It had 14 corn and flour mills, 8 saw mills, 1 woollen and 1 cotton factory, 7 tanneries, 21 churches, 8 academies, and 2,619 pupils attending public schools. Value of real estate in 1856, \$694,898. The county was formed in 1792, and named in honor of Stephen Cabarrus, speaker of the house of commons of North Carolina. Capital. Concord.

a. Capital, Concord.

CABBAGE, a plant belonging to the botanical order crucifera, and genus brassica, the order comprehending also the scurvy-grass, pepper-grass, mustard, cress, radish, and turnip, and the genus including also the cauliflower, broccoli, borecole or sprouts, rape, colza, savoy, and kohl-rabi. The brassica oleracea, from which all the forms of cabbage spring, is found growing wild on rocky shores and chiffs in England, with no appearance of a head. The cultivated cabbage is considered by some a monstrosity; but its varicties are well marked, distinct, and easily perpetuated, where care is taken to secure such conditions as will continue their exact habits. The cabbage is a biennial; the seed being sown produces a full-grown plant the first season, and the next season sends out shoots 11 to 2 feet long, which bear small globular seeds in a great number of pods. The whole plant then perishes. The large, solid heads of cabbage, now so familiar to all, were produced from the wild plant by gradual improvement in soils, manures, and cultivation. To repeat them annually it is necessary to observe 2 points: 1. None but those heads presenting the best type of the variety should be saved for seed; they must be taken up with the roots before frost sets in, the useless outside leaves removed, and set in a cool, dark cellar, with the roots imbedded in soil, and packed as closely as possible. In spring they are set out about 2 × 2½ feet apart in good garden soil, and no seed saved except from the most vigorous stalks. 2. They must not produce seeds near other plants seeding at the same time, which belong to the same tribe, such as cauliflower, turnip, broccoli, &c., as they will mix through their flowers, the seed producing mongrel varieties. Much disappointment is experienced from using seeds care-lessly produced by seed-growers to sell. There are many very valuable varieties of cabbage, some suited to particular localities. For early use, early York is an old favorite, some preferring the early flat Battersea. Coming next in succession, a new cabbage, Winningstadt, is excellent, heads compact, growth rapid. About New York, the late Bergen, flat Dutch, and best varieties of drumhead cabbages are preferred for late sorts. Three crops are secured in a season; seeds of early and late sorts are sown in a moderate hot bed in March, for the latitude of New York city, kept slightly moistened, with plenty of air at all times when the temperature is not too

low. The plants are dusted with dr ashes, pulverized lime, or a little Scote to keep off the fly—which is a sect, a great pest—thinned to an u kept free from weeds. When the u are dry and warm enough, the moved during a cloudy day, or in and the early sorts set with a dipple. inches, the later ones 20 to 22 inches a way, watered, and allowed to take n disturbing the soil about them. If the continues dry, the plants should be w or 8 evenings in succession. gives the earliest cabbages, and bages, which come between the crops. For a late crop the seeds are an open bed, thinly, in drills 6 to 1 apart, in May, and transplanted from J July 1, in straight rows, 22 to 27 inches each way. The cabbage is a rank fee exhaustive crop. The soil should be rich loam, not only containing p table matter, but a full supply of and lime. A dressing of common rate of 10 bushels per acre, will no. fit the cabbage crop, but kill grubs and which destroy the young plants rapidly. manures should not be applied the son the cabbage crop is to be grown pen manure must not come near t bage crop, as it disfigures the roc destroys the plant. Composts of ashes, lime, salt, and common; well decomposed, may be used in ties if well incorporated with the sandug deeply under, is good in all I sandy and gravelly soils. A firephosphate of lime, with 1 its w mixed with it, is one of the bestur old garden soil, or one which has always common manures. This compound -- DT dissolved in water, and be freely used feeble plants, or dug in about them wit As soon as young plants have taken ro new bed, they should be hoed, the better, till the leaves shade the younger stages, the cabbage must se on carbonic acid, &c., by its roots; I increases in size, it uses the leaves more sively—hence the necessity of early: quent hoeings. Some growers on Lon and in New Jersey, who supply Nemarket, produce from 20,000 to 100 annually, which bring from 2 to 18 c head, according to size and season; a in summer and autumn is about 6 fields are prepared by deep and subsoupe and are heavily manured, the horse subsoil lifter being used by the while at greater expense of manuse old style of culture is still kept up.

CABBAGE PAI sea elevaest of the Ameri p often
elevation of 150 fer Wissin M
than 6 inches in commeter. 1t
dantly in the West Indies, and

East Indian species of areca. The w only from the top, and their sheaths e that they form the green top of the foot in length. The inhabitants cut p, take out the white heart of 2 or 8 liameter, consisting of delicate leaves ded together which have been proany access of light, and eat it either or boiled. A tree which has grown century is often cut down for the or cabbage which crowns it.

L, a western county of Virginia, sepa-Ohio by the Ohio river. It is watered yandotte, and traversed by the princighfare from the Ohio to Richmond, projected route of the Covington and ad. The surface is hilly, and the soil aces quite good, producing Indian corn In 1850 it yielded 281,826 bushels of n, 44,912 of oats, 11,559 of wheat, and of tobacco. There were 9 corn and 10 saw mills, 4 wool-carding mills, s, 14 churches, and 374 pupils attend-schools. Organized in 1809, and honor of William H. Cabell, governor in 1808. Area, 448 sq. m.; pop. , of whom 389 were slaves; capital, me; value of real estate in 1856,

, Gulf of, an inlet of the Mediterrae N. E. coast of Africa. The towns or Khabs, and Sfax, or Sfakus, are 1 its shores. Its ancient name was wr.

ETIENNE, a French communist, born

Jan. 2, 1788, died in St. Louis, Mo., He was brought up for the bar, pointed attorney-general of Corsica, h office, however, he was soon dismissas sent to the chamber of deputies in There he made himself so obnoxious ernment by his violent speeches, and e time by his inflammatory pamphlets al (entitled the Populaire), that he ed for treason, and rather than subto the imprisonment to which he was ne withdrew for 5 years to England. re he published the Voyages en which he elaborated his scheme of which from 1842 to 1848 passed tions. On Feb. 2, 1848, a band of s wit France for the Red river in Tex-Cabet had secured a tract of 400,000 . the free use of which was open under condition that before their should deposit all their funds in of Cabet, who assumed the financial l control of the expedition. But

on turned out badly, and lawsuits wwed against Cabet; and on Sept. 80, he had left France for Texas, he was tv by default of swindling his disciples, ed to 2 years' imprisonment. Meanu his colony of Icarians dwindled down

) persons, he took up his abode at Nau-Mississippi, in May, 1850, and soon

after returned to Paris. There, after a protracted trial, his innocence was fully established, July 26, 1851, by the court of appeal, and the judgment against him cancelled. He returned to Nauvoo, where he continued to preside over his colony; but many disappointments and cares embittered his life and accelerated his death. In justice to Cabet it should be said, that the highest moral tone prevailed at Nauvoo, and whatever may be the politico-economical objections to his system, the colony presented, as far as the conduct of the settlers was con-

cerned, a model of purity and industry.

CABIRI (Gr. Kaßerpor), mystic Pelasgic divinities, which, according to Herodotus, were introduced thence into Samothrace, though they are spoken of as earliest worshipped in Lemnos. Neither modern critics of mythology nor the ancients themselves are agreed either upon the names, number, or origin of the Cabiri. By some there are said to be 6, by others 4, and others reduce them to 2. Some attempt to identify them with Castor and Pollux, others with the Corybantes, others with the children of Vulcan, and others still with the Roman penates. But whoever they were, they were regarded as the authors of religion and of the human race, and were worshipped by mysteries sacredly guarded from the knowledge of the uninitiated. Their worship gradually spread over Greece and Italy, but seems to have fallen into early disuse in all but a very few places. From what has transpired concerning the mysteries, it seems certain that the candidates for initiation were required to pass a long and painful abstinence from food and pleasure, and when admitted within the dark temple, were crowned with olive, girded with a purple belt, and then treated to all sorts of hideous sounds and sights, with most sudden alternations from din to silence, and from light to darkness, and were made to drink of 2 fountains, one of which (Lethe) was expected to obliterate the memory of the past, and the other (Mnemosyne) to secure a vivid recollection of all that was to be now taught them. The whole ceremony indicated an entire disconnection of their past and future lives. They were absolved from all their sins, and began a new existence. During the annual ceremonies in Lemnos, which like those in Samothrace lasted 9 days, all the fires on the island were extinguished, and new fire brought in a consecrated vessel from Delos. Those who were initiated were thought to be insured against storms at sea, and the purple girdle was worn as an amulet. The mysteries of the ancient religious systems probably have a com-mon origin in these Cabirian rites, and some writers have attempted to trace the oriental and druidical ceremonies to this common source

CABLE, a strong rope or chain. The name has of late years been applied to slender ropes used for telegraphic purposes, very likely on account of their great length. Cables are oc-casionally used to close the entrance of har182 CABLE

bors, but most generally they serve to connect ships with their anchors. The greatest improvement ever made in the mooring of vessels is the substitution of the chain cable for the hempen one, which has been effected during the last 50 years. A chain is much less bulky and much more pliable than a hempen cable of the same strength; it is consequently stored in much less space, and is handled more easily. On account of its great bulk, a hempen cable loses much of its weight in the water, and consequently assumes a position much less curved than a chain. The great curvature of a chain makes it yield and play as if it were elastic when the vessel gives sudden jerks, and thus the strain upon a chain from this cause is never so great as upon a hempen cable. On a rocky bottom a chain will simply be polished bright by attrition, where a hempen cable would be cut in a few minutes. When the bottom is strewn with heavy stones, or with projecting points of rocks, round which the cable winds itself during the various evolutions of the ship caused by winds and tides, a hempen cable is often cut, or at least greatly injured, while a chain cable does not suffer in the least, on account of its power of resisting side strain, as will be explained hereafter. board vessels, the cables are named after the anchor they are used with. The largest is called the sheet-anchor cable, and is used at sea; the next in size is the stream-anchor cable, and is used in rivers. Cables are made of various lengths, according to their size and to the service they are intended for. A cable's length is a measure of distances used by sailors, and is equal to 120 fathoms.—HEMPEN Cables are large ropes of the kind denomina-ted cable-laid. The fibres of hemp are first twisted into yarn; a number of yarns are twisted together into a strand; 8 or 4 strands are twisted into a rope denominated plain-laid; 8 or 4 ropes, used as strands, are twisted together to make the cable. The strands of a cable are consequently formed themselves of strands. The twist is reversed at each successive operation; that is, the yarn is formed by twisting the fibres from right to left; the yarns are twisted together from left to right, &c. It is customary to designate the size of a hempen cable by the length of its circumference, and that of a chain cable by the diameter of the rod of which the links are made. The largest usual size of cable is 24 inches circumference; it weighs 1 cwt. per fathom, is made of 3,000 threads, is equal in strength to a chain 21 inches diameter, and is tested to carry safely 80 tons. Hemp in its natural state is stronger than when wet or tarred; nevertheless, it is advantageous to tar the cordage which is to be used at sea, as tar protects it against water, which would weaken, and ultimately rot it. It is obvious that the process of tarring after the cable is made is imperfect, and simply better than nothing, as the tar does not reach the core; the true way is to tar the yarns of which

of substituting chains for coranchors was patented in Engiana Mr. Slater, a naval surgeon. prevented him from demonstration ments the value of his invention. 1811, Capt. Brown, of the Penels burden, made a voyage of 4 m West Indies, using a chain cable links. The success was complete. following years several vessels we their iron cables, and thenceforwar from hemp to iron proceeded uni till, at the present time, it would I find a ship without a chain cab The form of links adopted by Capt most imperfect; several other sha cessively tried, till the best form w patented in England by Bronton. shape of Bronton's link is that The inside curve, at each extremit axis, is of the same curvature as to make the chain. In this may just room enough for the next more. Across the link in the dir small axis is a cast-iron stay en extremity, with a small projecting centre of each end, which enters keeps the stay in its place. From ties of the stay to the curve at e rod forming the link is perfect When a cable chain with links struction is pulled upon, it resi much as the rod of which it is m not stretch more than a straigh obstacle is opposed to the side the link or links acted upon may a ferent positions: the link may r obstacle by its side, the axis of u perpendicular to the face of the this position the link is stronge parts brace each other to prevent of any—or the link may rest fla obstacle; in this position it is this cannot happen if the ob in such case the next links against it by their sides, and if th small, it is pressed between the back bones of the 2 next links, upon it and crush it to pieces. Th out much faster by their friction other, than by any other cause; as has taught that the ends where t greatest should be of rod iron of a eter than that of the sides. In the rods are manufactured with sw places which are to form simple machines are used to cables; the successive operations lows: 1, heating the round bars hot; 2, cutting them of the r but with opposite bevels; 8, be around an elliptic mandrel; o against the side of a vertical man there by a vice attached to the provided with a projecting

the ropes are made.—CHAIN C.

side the rod is made to describe an ellipse, carrying the hot rod around the mandrel; this lever does not turn around a pin in the centre of the mandrel, but is attached to 2 slides, which are forced to move in grooves occupying the position of the two axes of the mandrel; the the pin of the lever describes an ellipse parallel to the periphery of the mandrel; 4, the new link is hooked to the last preceding link of the chain in process of making, and welded at a small forge; 5, while it is still hot, the cast iron stay is introduced, and the link placed in a press, which compresses the two sides close upon the stay, at the same time that it makes these sides straighter; during this last operation an auxiliary straight rod is placed inside the end of the link, where the next link is to come, to prevent its closing. There are circomstances in which it is necessary to sever a cable, or to shorten or lengthen it; this is done by means of a bolt and shackle substituted for a link every 5 yards. Improvements have been made in the machinery for making chains, in which operations formerly executed by hand are performed mechanically, but we do not know that they have been applied to the manrefacture of chain cables, and it is doubtful whether they would succeed as well on a large as on a small scale. The manufacture of chain cable was begun in the United States in the year 1820, by Messrs. Cotton and Hill, of Boston. They worked successfully during 30 years, when, finding they could no longer comete in cheapness with the importers of Engish-made cables, they closed their works. Seveal instances have since happened of vessels being lost by the breaking of the chain in fair weather, showing conclusively that the English makers, in the heat of competition, had been using very inferior iron, and that the certificates of proof test accompanying the cahes were either spurious, or had been deliv-ered for other cables than those sold. These facts called for action on the part of ship-owners and insurance companies, and Messrs. Cotton and Hill were induced to reopen their works in 1857. A large amount of property, not to speak of human life, has been lost at sea and on the American lakes by the use of cheap chains. It is now well understood that economy in this respect is a dangerous mistake. The Telegraph Cable consists of one or more conducting wires enclosed in gutta percha, and protected by an external covering of wires. It is used for crossing rivers, having super-meded the use of high poles on the banks, and for submarine purposes. The currents and freshets of rivers, especially of those in the west of the United States, and the breaking of the ice, are much more injurious to a cable than the tempests of the sea, and the strongest vires are required to withstand their action. It is not known whether a cable was first laid across a river in England or in America, but the first one laid across a sea was that from Dover to Calais. This cable was made by Newall and

Co., of Liverpool. It consists of 4 copper wires 1 of an inch diameter each, coated with 8 layers of gutta percha so as to be increased in size to 1 inch diameter. The 4 covered wires are laid parallel, with a slight twist to prevent them from separating, and the spaces between them are filled with tarred hempen The whole is tied by winding spirally it another piece of tarred yarn. The exaround it another piece of tarred yarn. ternal covering is made of 10 iron wires of more than 1 inch diameter, forming around as many helices 10 inches pitch. The outside circumference is 4 inches; the weight is 7 tons per mile; the distance from shore to shore 21 miles; the cost is \$45,000 for 25 miles; it was successfully laid October 17, 1851. Since then, smaller and larger cables have been constructed, with very slight modifications, and successfully laid. The Atlantic cable, the laying of which was completed Aug. 5, 1858, has a core of 7 fine copper wires forming a rope; around this rope are 8 layers of gutta percha, which is protected by tarred hemp wound around, and the whole is covered by 18 strands of 7 fine iron wires each. The circumference is nearly that of a dime, the weight 1,800 lbs. per mile. Of the total length manufactured, 2,900 miles, 1 was made by Newall and Co., Liverpool; the other half by Elliot, Glass, and Co., Greenwich, London; both firms being the most renowned in Europe. The Messrs. Chester, of New York, have lately established an improved set of machines for manufacturing telegraph cables and wire ropes. This machine can make a cable from 3 inch to 5 inches in circumference, the external covering of the last being formed of 12 wires of the largest size, that is, about \(\frac{1}{2} \) inch in diameter. The machinery for making telegraph cable is quite different from that for working hemp. The reason is in the fact that wires must not be twisted, but simply laid, and that it is just the contrary for hemp.—The length of some of the best known submarine cables is: Dover to Calais, 24 miles, laid in 1851; Dover to Ostend, 75 miles (1852); Holyhead to Howth, 65 miles (1852); England to Holland, 115 miles (1853); Italy to Corsica, 65 miles (1854); Varna to Balaklava, 840 miles, Balaklava to Eupatoria, 60 miles (1855); across the gulf of St. Lawrence, 74 miles (1856); Sardinia to Africa, 125 miles (1857); Atlantic cable, Valentia bay

to Trinity bay, 1,950 miles (1858).

CABO FRIO (Cool Cape), a cape, city, and seaport of Brazil, province of Rio Janeiro. The city is situated at the S. E. extremity of Lake Araruama, and N. E. of the cape. A stone bridge, built in 1836, connects it with the continent. It has an electoral college, established in 1840, and an extensive trade in salt and fisheries; but the climate is unhealthy. Pop.

about 3,500.

CABOOL, or Kabool, a province of Afghanistan, extending from the Hindoo Koosh on the N. to the S. of Ghuznee, and from the Khyber mountains on the E. to Bamian on the W. It is about 250 miles in length, and 150 in breadth.

Cabool was once the name of a powerful kingdom, which reached almost from the shores of the Caspian sea to the vicinity of Delhi, and from the Oxus to the Persian gulf.—Caboot, the capital of the above-described province, and of the Dooranee empire as long as it existed, is in lat. 84° 80', long. 69° 6', on the Cabool river, immediately above its confluence with the Loghur. The city is about 8 miles in circumference, and is but indifferently fortified, being merely defended on the western side by a line of weak ramparts extending from one to the other of those ranges of hills which almost surround the plain wherein Cabool stands. The houses are built of sun-dried bricks and wood, and are in general from 2 to 8 stories high. Four spacious bazaars, erected by the celebrated Ali Murdan Khan, once adorned the centre of the city, but in 1842 the British utterly destroyed them. The citadel, styled Bala Kissar, or Upper Fort, occupies an eminence in the eastern quarter, and contains the governor's palace. The mosques and other public edifices exhibit no architectural beauties. Cabool has but one college, and even that is fast going to ruin. The serais, or public inns for strangers, are numerous, but neither elegant nor conve-The baths are abominable, both because of their filthiness, and because of the offensive smell proceeding from the fuel which is used in heating them. The city is abundantly supplied with water for every domestic and industrial purpose by the river Cabool, which is here crossed by 8 bridges; one, a substantial structure of brick and stone; another, a frail fabric of wood, over which even the foot-passenger cannot pass in safety; a third, which spans the river toward the west, is strongly fortified and jealously guarded by armed sentinels. climate of Cabool, from its proximity to the great Himalayan range and from its elevation above the level of the sea, is severe in the winter season, which begins early in October, and lasts till the end of March. During this period the opulent citizens seldom leave their houses, passing the tedious time within doors in as agreeable a manner as possible. In the summer season, however, when the climate of their city is as healthful as it is delightful, they indemnify themselves to some extent for their hibernal imprisonment, by living almost entirely in the open air.—Cabool is a city of considerable antiquity. As early as the 7th century of our era it was the residence of a Hindoo prince, and in after times it was for a short period the metropolis of the emperor Baber. In 1739 it was taken by Nadir Shah, and annexed to his dominions. On the death of Nadir Shah, Ahmed Shah Abdallah seized on it, and in 1774 his son and successor, Timour, made it the capital of the Dooranee empire. After the downfall of Mahmood, the last of the Dooranee dynasty, Dost Mohammed Khan took possession of Cabool and its territory, and maintained himself there till 1839, when the British marched an army into the country, under pretence of

placing Shah Shooja, the brother of on the throne of his ancestors, and the city. On Nov. 2, 1841, howe occupation was suddenly terminated by break on the part of the inhabitants, w sulted in the massacre of the whole force with the exception of 1 Europea or 5 sepoys, who had the good fortune t and a few persons of rank that were sp the sake of the ransom which might be ed for them. Gen. Pollock subseque vanced toward Cabool and was joined forces under Gen. Nott; the English : occupied the town in Sept. 1842, liber prisoners, and avenged the outrage by de the principal public edifices of the offend This achieved, the British retired, and l Mohammed to resume his sway over i sequently overtures were made by the Cabool, and an alliance was concluded 80, 1855. Pop. about 70,000. CABOT, GEORGE, U. S. senator from

chusetts, was born in Salem, Essex co., 1751, died in Boston, April 18, 1823. early age he went to sea and rapidly command, and made some voyages as a a ship, diligently employing all l well-selected reading. His extraorum ities were soon recognized. When 25 3 he was a member of a provincial congre met at Concord, in Massachusetts, and displayed much wisdom in preventing measures by which it was hoped to cor price of merchandise. At that time the of political economy was almost wh known, but he had already grasped its principles. As a member of the tion which, in 1788, adopted the tution, he maintained a high positive being immediately afterward sent from chusetts to the senate of the United won not only general respect, but the confidence of Washington and Hamilton knowledge of commerce and of the l methods of trade, greatly assisted Ham maturing his admirable system of public In 1798 he was offered an appoint: retary of the navy; he refused it anu all public life, but was afterward bu urged to take office with an imports could not resist. From an early age accustomed to guide others by his accurate judgment, his power of bri in consideration all the facts and re were of the essence of a question only, and his capacity of escaping fro men's excitement, even when his int matter was not less than theirs. qualities were applied to public questic the same happy results. And thus, a he had no desire for public life, and all ence of it only strengthened his love o ment, he was obliged to yield in some to the conviction that important wa called upon him to do what no ot do so well. He never shrank

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naibility. He knew that no breath of over: iled him, and that all men re-

equally incorruptible by passion He knew, also, the power me position gave him, and the duty it of guiding public opinion through igencies to which no man was equal not enter into the actual interests of with an earnestness that secured the y of those most interested, with charough to influence others, and with to save, not himself only, but the mulrhom he led, from the aberrations of or prejudice. It seemed to be his to induce others to submit themselves me good sense which was the unfailing ring master of his own life. In the convention, of which Cabot was presis characteristic qualities were most d conspicuous. This is not the place of that body, but of Cabot in connecit we may safely say that he was the those members who went there deterot to stop short of such measures as med legal, justifiable, and necessary, o go, and not to suffer an excited peo-

ir excited representatives to go any in his conduct in that convention he layed the same characteristics and the portant usefulness which had marked e public career and his private life .ged always, by education and by the ion of his mind, to the federal party of that is, to the conservative, rather the progressive party, or to the party rized by the wish that law should deguard public freedom rather than by onate desire for liberty, with more rets extent than to its quality.—He was rator, but was most persuasive, both in id in private, by the clearness of his id the cogency of his arguments, and solute freedom from all that insinceriplicity which brings against a speaker on or a fear fatal to his influence.-His appearance, dress, and habits were of gance and refinement, but of equal y. His conversation was extremely e, conveying as it did a wisdom by ll felt that they were instructed, but rith such ease and playfulness that none ressed. In his later years, while living nost part as a private man, he probably

reat an influence upon public opinone of his contemporaries. He was a of the church in Boston of which Dr. rd president) Kirkland was pastor, and he age of 72, after bearing with exemtitude the distress of a lingering and lisease. He left a son, who still surid a daughter who, after his death, Dr. Kirkland and has since died.

T. John, or Giovanni Cabota, or, in a dialect, Zuan Calbot, or Zuan use discoverer of the continent of merica. His name first occurs in the

archives of Venice; on March 28, 1476, denization was granted him after the customary residence of 15 years. The full entry of his denization would probably have named his birthplace; but it is not to be found. In the year 1495, and probably for years before, he resided at Bristol with his wife, who was a Venetian woman, and 3 sons. At that time it had become the received opinion that the earth is a sphere, and that the shortest and readiest way of reaching the Indies was by sailing west. This opinion was confirmed by the voyage of Columbus, who was thought to have reached the outlying isles of the Indies. On March 5, 1496, John Cabot and his 8 sons obtained a patent from Henry VII., authorizing them or either of them, their heirs or their assigns, to search for islands, provinces, or regions in the eastern, western, or northern seas; and, as vassals of the English king, to occupy the territories that might be found, with an exclusive right to their commerce, on paying the king a fifth part of all profits. Under this charter, John Cabot, some time in May, 1497, embarked in a single vessel, accompanied by his son Sebastian, and sailed west, as he said, 700 leagues, when, on June 24, 1497, he came upon land which he reported to have been a part of a continent, and which he assumed to be in the dominions of the Grand Cham. A letter of that year represents him as having sailed along the coast for 800 leagues; he landed, but saw no person, though he believed the country not uninhabited. He planted on the soil the banners of England and of Venice. On his return he discerned 2 islands to the starboard, but, for want of provisions, did not stop to examine them. He reached Bristol in August. His discovery was the admiration of that city, and attracted the favor of the English king. On Feb. 3, 1498, Henry VII. granted John Cabot special authority to impress 6 English ships at no higher charges than were paid for ships taken for the king's service, to enlist companies of volunteers, "and theym convey and lede to the londe and iles of late founde by the seid John." This license has been erroneously called a second charter; it was not so; the charter of 1496 was still valid and sufficient. This license is the last record that has been found of the career of John Cabot. himself made no voyage under it, whether ther is it known what country gave him birth. He was a Venetian only by denization. As he is found residing at Bristol, the conjecture would arise that he was born an Englishman; but the license granted him in Feb. 1498, calls him "Kabotto, Venician," a phrase which in our day, and still more in those days of stricter feudal rule, clearly implies that he was not a natural born subject of the king of England. Had he been so, he would have been claimed as an Englishman. Thus not even the native

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country of the discoverer of the North American continent can be ascertained. The authorities respecting John Cabot are, the Venetian archives; the patent granted him in 1496; the license in 1498; a letter dated Aug. 23, 1497, from Lorenzo Pasqualigo, a merchant at London, to his brothers at Venice; and the legend on the map of Sebastian Cabot, cited in Hakluyt, giving June 24, 1497, as the date of the discovery of the continent. In 1566, there was at Oxford a copy of Sebastian Cabot's map on which the date of the legend was 1494. Another copy with the same date has lately been discovered in Germany; but the legend is not by Sebastian Cabot himself, and the original charter of 1496, the letter of Pasqualigo in 1497, and the license of 1498, combine to prove the date 1494 to be an error. The better knowledge of the career of John Cabot is particularly due to the researches of an accomplished English scholar, Rawdon Brown.

CABOT, SEBASTIAN, son of the preceding, a cosmographer, and the discoverer of the coast line of the United States as far south as the Chesapeake. The time and the place of his birth are uncertain. Eden says, "Sebastian Cabotte tould me that he was borne in Bristowe, and that at four yeare old he was carried with his father to Venice;" but Contarini, the Venetian ambassador at the court of Charles V., relates in his diary that Sebastian Cabot informed him he was born in Venice, but bred in England; and this is confirmed by the denization of John Cabot at Venice, in 1476, after a residence there of 15 years. The time of Sebastian's birth seems to have been not earlier than 1475, nor later than 1477. There is no sufficient reason to doubt that he accompanied his father in the voyage which discovered America. May, 1498, he, without his father, led forth 2 ships and a large company of English volun-teers from Bristol, in search of a short northwestern passage to China and Japan. sailed so far to the north, that in the early part of July, the light of day was almost continuous. Finding the sea full of icebergs, he turned more to the south, and arrived at land which most persons believe to have been Newfoundland. Pursuing his search, he reached the main land of North America, landed in several places, and saw natives clad in the skins of beasts, and making use of copper. He proceeded as far south as the latitude of the straits of Gibraltar, and as far west as the longitude of Cuba. His object had been to find a passage to the rich continent of Asia, and though he discovered an immense territory under a temperate sky, his voyage was considered a failure. Vasco da Gama had reached India by way of the Cape of Good Hope, and filled the world with his fame. The discoveries of the Cabots were so little valued, that the family suffered the patent granting them the exclusive privilege of trade to be lost. On the death of Henry VII., Sebastian Cabot was invited from England by Ferdinand of

Spain, father-in-law of Henry VIII appointed one of the council for tl dies. In 1518 he was named pik Spain; in April, 1524, he attende gress assembled at Badajoz to dec conflicting claims of Spain and Port Moluccas. All the while, and durin life, the great object of his ambitic discovery of a direct passage to Asi in early life failed to find one by west, in 1526 he commanded an sent out in search of a south-west In this pursuit, in 1527 he entered a Plata. Remaining in those regions years, he discovered Paraguay. I pass round the continent at the sou turning to Spain, reached Seville no of July, 1530. In the first year o of Edward VI., on Oct. 9, 1547, council issued a warrant "for the t of one Shabot, a pilot, to come out to serve and inhabit in England;" a at the summons in 1548, with his bent on finding a short passage to On Jan. 6, 1549, the king gave him of 250 marks, or £166 13s. 4d., "in tion of good and acceptable service (be done" by him. On Jan. 19, 15; peror Charles V. applied for his without result. His influence was in inspiring confidence and enterp the merchants of England; and 1551, "Sebastian Cabote, the grea received from the king a special £200. The patent granted to the Henry VII. in 1496 having been I tained of Edward VI. a copy of i rolls, and prepared to prosecute a r of discovery, still in search of a Indies. In 1558, a company of me which he was the president, sought by way of the north-east, expecting north cape of Norway, and sail se China. One of the 2 ships was fr a Lapland harbor, and all the person perished with cold; the other Archangel, and opened a commen England and Russia. On Sept. 9, after the accession of Queen Mary, ror Charles V., through his ambass and very earnestly made request tha Cabot should be sent back to his so much importance did he seem ev his great old age. But Cabot refus England.—A new company was for covery on Feb. 23, 1556, of which partner and the president. On Mor 27, 1556, accompanied by divers and gentlewomen, he went on boar nace the Serch Thrift, which was o of sailing, and distributed most lib then going on shore, he and his frie banquet to the ship's company, and joy at the forwardness of the in ery, the octogenarian cosminto the dance himself. At

mended the ship's company to the governance of Almighty God. On May 27, 1557, he re-speed his pension, and on the 29th of the same month he received a new grant of it under a different form. These are the last authentic notices of Sebastian Cabot, one of the most remarkable men of his age. Where he died is not certain, though it was probably in London; the precise time of his death is also unknown, and no one can tell his burial-place.— The best work on Sebastian Cabot is the memoir by Richard Biddle, but further materials have been contributed by Rawdon Brown, and by Varnhagen in his Historia do Brazil. of his maps has lately been found in Germany, and has been published by Jomard at Paris in the Monuments de la géographic. In preparing the present article, some unpublished manuscripts have also been used. CABOTVILLE. See CHICOPE

See CHICOPEE.

CABRA (anc. Ægabrum), a Spanish town in province of Cordova. Excellent wine, the province of Cordova. min, and fruit, are produced in its vicinity. There are manufactories of cloth and linen, and s great annual fair is held in September. The town coutains a fine Gothic cathedral, a Dominican convent, a college, a hospital, schools, a theatre, and famous mineral springs. The grotto of Jarcas and other curiosities attract the attention of the geologist. Pop. 11,576.-The name is common to several small Spanish towns, a village of Central Africa, one of the Nicobar islands, and a small river in Brazil.

CABRAL, Antonio Bernardo da Costa. See Costa-Cabral.

CABRAL, Francisco, a Portuguese mission-. ary, born in 1528, at Covilhão, died April 16, 1609, at Goa. At the age of 26 years he was spointed professor of philosophy and theology # Gos, and superintendent of the Jesuit schools in India. He proceeded thence to Japan, where he effected the conversion of a large number of the inhabitants, including 2 of the princes with their families. He also had direction of the missions in China, and shared in the toils and mif-devotion of the missionaries. He returned to Goa, and held for 38 years the office of supenor of the Roman Catholic educational establishment in that place.

CABRAL, Pedro ALVAREZ DE, the principal discoverer of Brazil, born in Portugal in the latter part of the 15th century, died about 1526. King Emanuel, animated by the discovery of America and of the Cape of Good Hope, determined to fit out a new and magnificent commercial expedition to Calicut, composed of 18 resels richly laden, and manned by the most experienced and bravest sailors of the time. Cabral was appointed commander-in-chief, and under him served many mariners whose names had already acquired celebrity. After passing beyond the Canaries, the fleet took a westerly direction, and whatever may have been the motive of the course, the result was the more comlete discovery of Brazil (the country having been first discovered in the preceding January,

by Pincon, a companion of Columbus), of which on April 24, 1500, Cabral took possession in the name of his king. He now steered for India, the special object of his mission, but soon lost in a tempest half of his fleet. With the remainder he kept his way and landed first at Mozambique, and afterward at Calicut, and succeeded there, after a series of negotiations with the Indian princes, in establishing a factory. He returned to Lisbon July 31, 1501, having the 6 ships which remained of his fleet laden with the riches of the East; but after this there is no further mention of him in the Spanish annals.

CABRERA (anc. Capraria), one of the Balearic islands in the Mediterranean, in the province and S. of Majorca. It is used by the Spanish government, to which the island belongs, as a place of exile, has a fort, and a small harbor. Cabrera is also the name of several villages and

a river of Spain.

CABRERA, Ramon, count de Morella, duke de la Victoria, a prominent Carlist general, born at Tortosa, in Catalonia, Aug. 81, 1810, in the middle walks of life, brought up for the clerical profession, for which, however, he was unfitted by his love of pleasure and dis-When, after the death of Ferdinand sipation. VII., civil war broke out between the partisans of his brother Don Carlos and those of the present queen Isabel II., the priests became the most zealous champions of Don Carlos, and their enthusiasm acted so powerfully upon the impetuous spirit of young Cabrera, that he joined in 1838 a small band of guerillas. fought with singular ferocity, which rose to fury, when, Feb. 16, 1836, upon the order of the queen and of Mina, Gen. Nogueras put to death Cabrera's aged mother and his 8 helpless sisters. Cabrera took vengeance upon all the Christinists who fell into his hands. His enemies treated him like a wild animal, and hunted him, after he had laid waste Aragon, Valencia, and Andalusia, from one place to another, until exhausted, wounded, miserable in body and spirit, he only escaped from their hands by taking refuge in the house of a priest in the village of Almagon. As soon as he had recovered his health, he resumed his attacks upon the Christinists, and after a temporary defeat at Torre Blanca, eventually took Morella. Hence in 1838 Don Carlos created him count de Morella, and at the same time lieutenant-general, and in this capacity Cabrera continued to fight for the cause of the pretender, and for what he considered the cause of the priesthood and the church, until 1840, when he was compelled to flee to Paris. By order of Louis Philippe he was arrested and consigned to the fortress of Ham, but was soon set free. In 1841, he took up his residence at Lyons, and remained there passive until 1845, when he opposed the abdication of Don Carlos in favor of the count of Montemolin, with whom, however, he was, notwithstanding this political opposition, on intimate social terms, and whom, in Sept. 1846, he

accompanied to London, in the hope that the Spanish marriage question would offer a good opportunity to dispose the court of St. James favorably for the cause of the Carlists. He also resumed his agitation in Catalonia, Valencia, and Aragon, but he was as little successful in Spain as in England. There was not the least chance for any rising on behalf of the count of Montemolin until 1848, when the French revolution filled Cabrera with the most sanguine expectations; which, however, were dooined to disappointment, as on his arrival in Catalonia he was but indifferently received, and on Jan. 27, 1849, he was severely wounded at Pasteral, although he succeeded in making good his escape to France. He was again arrested, and again set free in August of the same year, when he took up his abode in London. Here he married a rich English woman, a Miss Marianne Catharine Richards, who had conceived an enthusiastic attachment for the forlorn cause of the Spanish Carlists and for their representative. In July, 1850, he proceeded to Naples, in order to turn to the benefit of the count of Montemolin the differences existing between the Spanish and Neapolitan cabinets, but at the beginning of 1851 he was expelled from Naples, and since then

has alternately resided in England and France.
CACAPON (often pronounced Capon), or
GREAT CACAPON, a river of Virginia, about 140
miles long. Rising in the Alleghany mountains,
it traverses Hardy, Hampshire, and Morgan
counties, and falls into the Potomac about 4
miles W. of Bath or Berkley springs. The
Little Cacapon flows through Hampshire county, a few miles west of the river just described,
and also enters the Potomac.

CACCIA, Guglielmo, an Italian painter, born at Montabone in 1568, died in 1625, more commonly known by the name of Moncalvo, from the place of his education. He was one of the best fresco-painters of his century. Many of his works remain in galleries in the northern part of Italy, among which may be mentioned his masterpiece in oil, the "Descent from the Cross," and his "Glory of Angels." He founded the convent of the Ursulines at Moncalvo, where 5 of his daughters took the veil, two of whom are remarkable as being among the few women ever known to have been skilled in fresco-painting.

CACERES, the ancient Cacilia Castra, a city of Spain, capital of a province, and on a river of the same name, about 175 miles S. W. from Madrid. It was founded by Q. Cæcilius Metellus in 142 B. C., and contains some fine monuments and curious Roman and Moorish antiquities. The new part of the town surrounds the old, and contains 1 handsome principal square, which is a favorite resort of the inhabitants. It has manufactures of cloth and earthenware, and considerable consmerce. Pop. 12,051. It was taken from the Moors by Alfonso VIII. in 1142. They recaptured it, and it was finally taken from them by Ferdinand II. of Leon in 1184.

CACHAR, KATSCHAR, OF HAIRUMO, & &trict of British India, in the presidency of Bengal, bounded N. by Assam, S. by lade-pendent Tiperah, and lying between lat. 34' 18' and 25° 50' N., long. 92° 24' and 13° 28 E. Length from N. to S. 110 miles; breath, 65 miles; area, 4,000 square miles; popul-tion, 60,000. It comprises 2 divisions—Cachar proper, or S. Cachar, and Dharmapoor, or N. Cachar. It is a mountainous, well-wooded and abundantly watered district, travened from E. to W. by the Barak, a river navigable during most of the year, and by several small streams, down which timber, bamboo, and canes are floated. Travelling is attended with more than common difficulties, owing to the small number of roads, the frequently imparsable state of the jungles and mountain pathways, and the inundations prevailing from June to November. The moisture arising from heavy periodical rains renders the climate cooler than that of Calcutta, but deadly to European. Vegetation is rapid and luxuriant. The tanged grass and thick woods shelter vast numbers of elephants, buffaloes, wild deer, and tigers; and so formidable are the latter, that a large reward has been offered by government for their destruction. The principal crops are rice, sugar, coffee, and cotton. The exports are salt timber, cotton, wax, silk, and iron ore. The inhabitants resemble the Chinese in appearance, are robust, and fairer than the Bengalese.—Cachar was invaded by the Burmese in 1774. and was shortly afterward compelled to pay tribute to them. During the administration of the rajah Govind Chunder, who mounted the throne in 1810, it excited the cupidity of the neighboring state of Cassay, and for 5 or 6 years was the arena of incessant contentions among the several princes of that nation. One of the latter finally obtained the mastery, expelled the rightful rajah, and was in turn dispossessed by the Burmese, after which the British put an end to the strife by occupying the country, and restoring Govind Chunder to his throne in 1824. A portion of the territory which resisted his authority was made over to its do facto ruler, and has since lapsed to the East India company. The rest was divided between the British and the rajah of Cassay, on the death of Govind Chunder without heirs in 1830.

CACHET, LETTRES DE, one of the most convenient devices of despotism in France before the revolution. They were simply scaled letters from the king, countersigned by a secretary of state, by virtue of which a man was arrested, taken to a prison, and put out of the way, without any judgment or appeal. Formerly, under the name of lettres closes, they were made use of occasionally to send imperative orders to a court, as a means of delaying the course of justice; but in the 17th century their use was extended. They were obtained by any one having influence with the king or his ministers, and persons were imprisoned, sometimes

were most frequently resorted to during the reign of Louis XV. Had some nobleman ruined a poor girl, he silenced the complaints of an indignant father by sending him to prison through the means of a lettre de cachet. Was some honest officer in the administration suspected of looking too deeply into the so-called ecrets of state, a lettre de cachet was immedistely issued to punish his indiscretion. A lady of high rank being in love with some prince, and annoyed by her husband's jealousy, found nothing easier than to have the husband confined in a dungeon. Husbands, in their turn, had recourse to the same expedient to get rid of their wives. Thus, any courtier, if he had friends about the ear of the king, his ministers or avorites, could shield himself against the consequences of his crimes. There was even a time when money was sufficient to obtain lettra de cachet, and the mistress of one of the ministers of Louis XV. sold them openly. father of Mirabeau obtained no less than 59 lettre against his son. Latude was confined to prison for 85 years for a trifling intrigue against time de Pompadour. When the Bastile was taken by the people, July 14, 1789, there were prisoners who had been brought there on lettres deschet, who had not seen the light for 20 years; others who had been so long detained that they had become idiots, and could not re-member why or when they had been incar-

CACHUCHA, a Spanish dance, made popular in Europe by the inimitable grace with which Pany Elssler introduced it into the ballet of La diable boiteux. The steps are those of the bolero and fandango. An air of an old Spanish ballad and castanets accompany the dance

CACIQUE, or Cazique, an aboriginal Mexican term of nobility. It has been applied by the Spanish-Americans to the chiefs of the Indian tibes of Central and South America.

CACTUS, a genus of plants, the type of the meral order cactacea, comprising numerous species, all of which are natives of America. The name was originally given by Theophrastus to a miny plant of Sicily. The cactuses have fleshy and succulent, globular or columnar, often deeply channelled and many-jointed stems, usually leafless, but armed with spines and bristles. structure of many of the species is singular and grotesque, and their appearance is interesting, by reason of the roughness of the stalks and the beauty of the flowers. Found chiefly in the hot stony places of tropical America, their stems are filled with an abundant juice, which, being acceed within a tough and impermeable skin, enables them to support a sluggish vital action without inconvenience in a parched soil. They very in stature from creeping stems to angular ming trunks, sometimes 80 feet in height. The flowers, varying from pure white to rich searlet and purple, are much increased in size

for life, on the most frivolous pretexts, for the gratification of private pique or revenge. They were most frequently resorted to during the poorest soil. More than 60 species of cactuates have been described. The O. melocactus, the great melon thistle, or Turk's cap, grows from the apertures of rocks in the dryest and hottest parts of America; it appears like a green melon, with deep ribs, set all over with sharp thorns, and was likened by Linnaus to a hedgehog; it has on the top a small discoid, villous cap, from which the flowers grow in a circle; it attains a height of 4 or 5 feet in the West Indies, and has been brought to more than half this size in England; in times of drought they are ripped up by the cattle and their moist internal part greedily devoured. The C. grandiflorus is remarkable for its large, beautiful, sweet-scented flowers, which begin to open in the evening, and close again forever before morning; the calyx, nearly 1 foot in diameter, is of a splendid yellow, enclosing pure white petals, and the flower during the 5 or 6 hours of its continuance is hardly surpassed in beauty; its structure is such that in cultivation it may be trained against a wall. The *C. flagelliformis* is a more delicate species than the preceding, with a greater number of smaller pink flowers, which keep open 3 or 4 days; its slender trailing branches require support. The O. Opuntia, prickly pear, or Indian fig, derives its name from Opus, in Greece, where it was indigenous, although, like the others, a native of America; it also grows wild in Italy, and flourishes in the lava at the foot of Etna; it is cultivated in England and America for its fruit, upon which the Indians of Florida lived almost exclusively for 3 months in the year. The C. tuna is used for hedging; 8 rows of it were planted as a boundary when the island of St. Christopher was divided between the English and the French. The C. cochinillifer is the chief nourishment of the cochineal insect; the delicate red juice of the fruit imparts a tinge to the urine. All the species of cactus are best cultivated in a sandy loam mixed with brick rubbish.

CACUS, a giant, said to have been the son of Vulcan, and represented by the classic poets as a monster who continually vomited forth fire and smoke. He dwelt in a cave on Mount Aventine, and the entrance to his den was adorned with human heads and limbs. He was the terror of the inhabitants of the surrounding country, whose cattle he stole and dragged backward into his den, so that their tracks could not be discerned. Having dealt thus by some cattle belonging to Hercules, he was finally slain by that hero; the ara maxima was dedicated in honor of his victory.

CADAHALSO, José DE, a soldier and poet of Spain, born in Cadiz in 1741, died at Gibraltar, Feb. 27, 1782. At 20 years of age he travelled through Italy, Germany, England, and Portu-gal. On his return to Spain, he entered the army and rose to the rank of colonel. He published tragedies and Anacreontic poems which gave him a high reputation. His work,

Eruditos a la Violeta, was a satire on superficial learning. He also directed the early genius of Melendez Valdez, so that it was said that of all his works Melendez was the best.

CADAMOSTO, or Ca Da Mosto, Luigi, an Italian navigator, born in Venice in 1432, died about 1480. Before he was 22 he had made several voyages in the Mediterranean and Atlantic. In 1454, during a voyage to the Netherlands, his vessel was constrained by bad weather to put in at Cape St. Vincent, in Portugal, where Prince Henry, the heir apparent to the crown of that kingdom, then chanced to be sojourning. This prince proposing to the young Venetian that he should undertake a voyage of discovery to the islands and coast of Africa, he sailed March 22, 1455, from Lagos; visited Madeira, the Canaries, Capes Blanco and Verd, the Senegal and the Gainbia. In the following year he sailed along the African coast as far as a river to which he gave the name of San Dominico. On his return to Venice he wrote an account of his 2 voyages, first published in 1507.

a sect of Mohammedans, who CADARI, denied fatalism and asserted the freedom of the will. The founder of the sect suffered martyr-

dom.

CADDO, a parish of Louisiana, bordering on Texas and Arkansas; area, 1,200 sq. m. river and the Great Raft form its eastern boundary. During 8 months of the year the river s navigable as far as Shreveport, the capital. The surface of the parish is undulating, and is partly occupied by Soda and Caddo lakes, which communicate with Red river and with each other, and are navigable by steamboats. 1855 the productions were 11,616 bales of cotton, and 359,675 bushels of Indian corn; value of real estate, \$1,880,780; pop. 9,798, of whom 5,681 were slaves.

CADDOES, an Indian tribe who once occupied the region immediately north of the present Texas line. They have been reduced to less than 800 souls, and forced to take refuge among

the Comanches.

CADE, John, the Jack Cade of Shakespeare, an Irish rebel, died July 11, 1450. Early obliged to flee from Ireland, he took refuge in In 1450 he passed over to England at the moment of great popular dissatisfaction with the ministers of Henry VI. He at once pretended to be a relative of the duke of York, assumed the name of Mortimer, raised the standard of rebellion in Kent, May 8, and very soon found himself at the head of 20,000 men. He advanced to Blackheath, and interchanged notes with King Henry, to whom he made known the griefs of his companions. He defeated the royal troops which were sent against him, and entering London July 1, immediately caused the execution of 2 of the offensive ministers. At first he kept his army under rigorous discipline, but after a few days' residence in the capital their propensity to plander could no longer be restrained, and they

pillaged some of the finest houses. This aroused the citizens against them, and on the night of July 5 Cade met with his first defeat. A promise of pardon now dispersed most of his followers, and finding his force no longer sufficient for resistance he took to flight, but was overtaken and killed.

CADELL, ROBERT, a Scotch bookseller, and the publisher of the later works of Sir Walter Scott, died at Edinburgh, Jan. 20, 1849. In the failure of Mr. Constable, his first publisher, Scott was involved to the amount of more than £100,000, and Cadell immediately purchased the printed stock of Scott's books, monopolized the copyrights, and by various improvements in their style of publication increased the interest of the reading community, and the amount and profits of the sales. His talents as a publisher, joined with the vigor of Scott's genius, enabled the latter to meet all his heavy obligations, and to preserve to his family the domain of Abbotsford. At the death of Scott £20,000 was still wanting to secure this result. and this amount was advanced by Cadell who asked no other security than the profits which would accrue from Sir Walter's copyrights.

CADENCE, in music, a pause at the end of an air, which is followed by an extemporaneous effusion by the performer.—In reading or speaking, the fall of the voice. In such exercises a key-note is generally taken spontaneous ly, and the fall of the voice below this is a

cadence.

CADES, GIUSEPPE, an Italian painter, born # Rome in 1750, died there in 1800. He could reproduce the style of any great master with such accuracy as to deceive the most skilfel connoisseurs; which dangerous gift, however, he always exercised in the most honorable manner.

CADET (Fr.), the younger or youngest brother; also, a person who serves in the expectation of a commission in the army, but who receives pay, while a volunteer serves gratu-tously. The name cadet is also applied to students in military and naval academies, and for instance, to those of West Point and Annapolis.

CADET DE VAUX, ANTOINE ALEXE FRAScois, a French apothecary and chemist, born in Paris, Jan. 13, 1743, died June 29, 1828. He was the inventor of the galactometer, or instrument for ascertaining the quality of milk.

CADI (Arabic, Kaidon), an inferior judge among Mohammedan nations. The name generally applied to functionaries in a village or small town, while the superior judges in province or a city are called mollah or moule. The Mohammedans deriving their law from the Koran, the cadis and all other magistrates form part of the higher clergy.

CADIZ, a city and province of Spain in Andalusia; pop. of the province, about 300,000; of the city, in 1857, 61,844. The town is missiated on the S. W. coast, on the rocky extremity of a small tongue of land projecting from she

; lat. 36° 31' N., long. 6° 17' W. nts the ocean; behind it is the f Cadiz the entrance to which de Santa Maria is protected by atagorda and Puntales on either nnel. The Isla de Leon is separatainland by the Rio de Santa Petri, d by a bridge. On the mainland mvy yard and arsenal of La Cais the most important commercial ty of Spain, but has declined from rhich it occupied in the glorious Spanish colonial empire, when it a chief maritime cities of Europe. the entrance of the Mediterraath of the peninsula continues, ive it great commercial impor-29 it was made a free port, but this duced such a large number of t it was withdrawn 3 years afterircumstance, and the competition Malaga, and other cities, exercise le effect upon its commercial The imports consist mainly of cocoa, indigo, spices, rice, wheat, r, cheese, hides, cotton, wool, linand brass manufactures, hemp thenware, copper, tin, crystal 10; the exports, of wines, fruits, n, lead, quicksilver, barilla, raw cork wood and corks, leeches, or fishing and for guitars, casts (chick-peas), beans, wheat, woollen manufactures, and thread nite wines of Xerez, in the viciniorm the principal exports, repreerage annual value of \$2,500,000, y of 20,000 pipes, of which more England. The total exports in England. The total exports in 13,000,000, and the imports \$8,e entrances in 1855 were 997 206,000, and the clearances *2*15,000.

Cadiz has a joint and issues its own notes. The carried on in the city are soap, woollen, cotton, and silk, hats, ather. Cadiz is famous for its of fans, mantillas, gloves, guitars, ats or dulces. The town is the a Andalusia, and is divided into 4 taining 6 great and 23 smaller The calle Ancha is 260 streets. The calle Ancha is 7 of Cadiz. The Alameda is a fine The public edifices are not recathedrals, ancient and modern, and a plaza de toros. There are intings scattered about the city. lo, in the chapel of the convent , has a melancholy interest, from nce of the great painter having escaffold while painting it, and rom the fall. Cadiz is the seat of naval and colonial tribunals, and irches beside the 2 cathedrals, and There are several hospitals and tutions, a custom-house, an exchange, an academy of drawing, a botanical garden, an observatory, and, among other institutions, mathematical, naval, and military schools.—The climate is excessively hot, and the winds of Africa make it frequently very uncomfortable. Cadiz was founded by the Phœnicians, and was the Gades of the Romans. The remains of a Tyrian temple of Hercules, with some other buildings of the ancient city, are still visible at low water. The Arabs conquered the city, which was retaken by the Spaniards in 1262. It has been attacked by the English several times, successfully by Peterborough and Blake. In 1810 it was invested by the French, but they raised the siege in 1812 on the advance of Lord Wellington. In modern times it has always been politically conspicuous for the liberalism and prompt action of its inhabitants in the several crises of the Spanish constitution.

CADIZADELITES, a sect of Mohammedans, who receive both the Bible and the Koran, believe that Mohammed is the Holy Ghost, prac-

tise circumcision, and drink wine.

CADMIA. In working hematite iron ores in blast furnaces, an incrustation gradually collects upon the inner walls in the upper and cooler part of the stack, which, when the furnace is cooled after a long blast, is beaten off with difficulty by hammers and chisels. It is strati-fied in thin layers concentric with the walls upon which it is attached. Its appearance is that of a rich natural ore of some very heavy metal, and for this it has been mistaken. Its colors are reddish and yellow. On analysis it proves to be a compound of oxide of zinc, which is contained in the iron ore in quantities too small to be detected by chemical researches. In the course of a long blast, as this is continually volatilized, the vapor is condensed in the form described, to which the name of cadmia is given. It is common in the blast furnaces of this country and in those which use hematice in Europe. Dr. Beck gives 2 analyses of this substance taken from the old Ancram furnace of Columbia co., N. Y., which are as follows:

	1	3
Oxide of zinc	96.10	95.00
Oxide of iron		4.50
Carban		0.50

Oxide of lead is also sometimes present when this metal is contained in the ore; and so probably is the metal cadmium, which was first recognized in the similar crust deposited on the sides of furnaces in which zinc ores and brass were treated. The name is derived from the Greek name for zinc ore, given in honor of Cadmus, who introduced the manufacture of brass into Greece.

CADMIUM (Gr. καδμεια, calamine). The name was formerly applied to the sublimations of zinc and cadmium, which collect as incrustations upon the inner walls of furnaces in the metallurgic treatment of zinc ores and alloys. These are still called cadmia. Cadmium is now the name of a metal which is extracted

from some of the ores of zinc. It is nowhere met with in a native state, nor as a distinct ore, except as the sulphuret, and this is found at only one locality, which is Renfrewshire, Scotland, where it was discovered by Lord Greenock, and for him named Greenockite. It consists of sulphur 22.8, and cadmium 77.7. Its colors are honey and orange yellow. It is nearly transparent, double refractive. Its hardness is 3—3.5; its specific gravity, 4.8; its crystals, short hexagonal prisms. The metal was discovered in 1817, by Stromeyer, in some ores of zinc of upper Silesia. These ores contain 1 or 2, and sometimes 10 per cent. of cadmium. Its presence is recognized by the reddish color of its oxide deposited before the blowpipe upon charcoal, zinc alone leaving a white coating. Cadmium bears a strong resemblance to tin in some of its properties, as in color and lustre. It is a little harder, and requires to melt it a temperature, according to Daniell, of 360°, while tin melts at 442°. It is ductile, so that it may be drawn out into fine wire or beaten into very thin leaves. Its density when melted is 8.6; when hammered, 8.69. It volatilizes a little above its melting point, hence subliming more easily than zinc, taking fire and burning with a thick smoke of brownish or yellow color without smell. When bent it gives, like tin, a crackling sound. It is susceptible of a beautiful polish, and marks paper like lead. At ordinary temperatures it is unaltered, even in moist air; after a long period a thin grayish pellicle of oxide forms upon its surface and protects it from further change. It dissolves in nitric, sulphuric, and hydrochloric acids a little less readily than zinc. The chemical equivalent of cadmium is 56; its symbol, Cd. Only one oxide of the metal is known, the composition of which is cadmium 87.45, oxygen 12.55; it is formed by heating the metal in contact with the air, and in calcining the nitrate or the carbonate of cadmium. The salts are in general soluble and take crystallized forms. They have no color, but possess a nauscous taste and act as emetics. The sulphuret, precipitated by sulphuretted hydrogen, makes a beautiful and brilliant yellowish red pigment, which is very permanent. If alum is added to the solution, the precipitate will be obtained mingled with alumina. The sulphate is obtained by dissolving the carbonate or the metal itself in dilute sulphuric acid, a little nitric acid being added. It is a salt of similar properties to those of sulphate of zinc, but much more powerful. It is used in medicine as a valuable remedy in the treatment of syphilis, rheumatism, and gout; and in diseases of the eyes it is found of great service as an as-tringent and stimulant, and is particularly beneficial in the removal of specks and opacities of the cornea.—Cadmium is obtained in a metallic stato from compounds containing it by precipitating with a current of sulphuretted hydrogen gas from its strongly acid solutions. Zinc, cadmium, and copper, if present, are thrown down

as sulphurets. These are redissolved i muriatic acid; the metals are precipit carbonate of potash or soda; the preci-then digested with carbonate of ammonia redissolves all the copper and zinc. The remainder is then washed with water, with carbonate of ammonia, and afterwa pure water. It is then calcined, and is reduced to a metallic state by mixing lampblack and carefully heating it. may also be obtained by precipita its solutions by means of strips of zinc (but it is then always necessary to redise purify it, to obtain it free from zinc and In preparing cadmium in a large way, i ing the zinc ores by the process ado Silesia, the cadmium, more volatile ti zino, separates entirely from the ore du first 4 hours of its distillation. This co a yellowish brown oxide, and is found with the white oxide of zinc, which s in the early part of the process. The l parts of these sublimations are collec mixed with ! their weight of coke. then heated at a moderate temperatu muffle, which is furnished with a sh neck, kept constantly cool by a current The zinc that comes over first conde upper part of the neck, and the cadm is more volatile, is deposited as a oxide further from the muffle. The ea the very volatile cadmium vapor is pr by a wooden stopple in the extremity neck, through which a very small openi is made for allowing some gas to escap oxide of cadmium, thus obtained separa the oxide of zinc, is mixed with charcoal and introduced into a c which is moderately heated. The tilizes and condenses in little drops neck of the trough. It is then rement a little resin and cast in moulds of a small cylindrical bars. This is a 1 the master founder, and is worth ev It still contains a small proportion of zi which it may be separated in the w The production of cadmium at the gr works of upper Silesia has amounted f time past to only about 1,100 lbs. per If it were not for its rarity and high might be employed to advantage for th purposes as tin.

CADMUS, a mythological king of son of Agenor, king of Phenicia, and of Europa, who is said to have it into Hellas the 16 simple letters of ta alphabet. He left his native country it of his sister Europa, who had been be Jupiter. On making inquiry of the oracle as to what state he should che settlement, he was advised to follow which would meet him. On Phocis and followed her into sank down on the spot wareas called Cadmea, and which became the of Thebes. He sent some of his e

ater from a well sacred to Mars. This s guarded by a dragon, which slew the Cadmus slew the dragon, and was by Minerva to sow the monster's teeth. no, and a host of armed men immediatefrom the ground, who were called the ... the Sown. These were about to turn but the latter threw a stone amid t ensued which did not cease These survivors were main, except 5. tractable and helped Cadmus to build Cadmus was honored as the and patron of Thebes. To recompense his perils the gods gave him Harmonia, there of Mars and Venus, for a wife, and

their nuptials with their presence and

DUDAL GEORGES, the leader of the sor Breton rebels in the French revoporn at Kerléano, in lower Brittany, 1771, guillotined in Paris, June 25, He was educated at the college of and at first shared in the reformatory hich the revolution inspired; but the s of the assembly against the liberty of th gave a shock to his religious sentiud set him in opposition to all the new With 50 of his compatriots he joined, the Vendean chiefs at Fougères. He n arrested and thrown into prison, but in the disguise of a sailor, and became sat the head of an army of Chouans.

disaster of Quiberon, he united the united the royalist troops, but was unable s progress against the republican army loche. By his efforts the insurrection wed in 1799, but without success, and voliged to flee to England. He was revith distinction by the English govern-

by the count of Artois, who made nant-general, and bestowed high nim. In 1803 he returned to Paris, other officers, with the design of the government. His plot was L and all the efforts of the police were

directed to his discovery. He was pting to leave Paris by a covered 4 fir however, shooting 2 of the police, rtly atter was adjudged guilty of an atn the life of the emperor. He showed

e to the last, avowing himself to be u or the conspiracy, and avoiding most v to compromise any of his partisans. uct excited the admiration of Napowould gladly have pardoned him, but

refusal of Cadoudal to recognize r of the French did not allow

was of any favor upon him. TES, a mild and pious sect of Moham-, who meet once a week, and spend the 1 a rotatory sort of dance, keeping their oined, and each repeating the attributes : during which one of them plays softly

. They never cover their feet or heads, er cut their hair.

UCEUS, the magical wand which VOL. IV.-13

Mercury received from Apollo in exchange for the lyre. This wand was able to put an end to strife the moment it was thrown between the

parties at variance

CADWALLADER, John, an officer in the war of the American revolution, born in Philadelphia in 1743, died Feb. 10, 1786. He was a member of the Pennsylvania convention in 1775, and at the commencement of the war was commander of a volunteer company, nearly all the members of which subsequently became officers in the army. In 1777 he was appointed by congress a brigadier-general, and took part in the battles of Princeton, Brandywine, Germantown, and Monmouth. He commanded one division of the army in the attack upon Trenton, but was prevented by the ice from crossing the river in season to engage in anything but the pursuit of the defeated enemy. The intrigues of Gen. Conway against Washington occasioned a duel between him and Gen. Cadwallader. The latter was, after the war, a member of the assembly of Maryland.

CÆCILIUS STATIUS, a Roman comic poet, contemporary of Ennius, and the immediate predecessor of Terence, died 168 B. C. Of his works there remain only a few fragments, and the titles of 40 of his dramas, which indicate his resemblance to the Greek writers of the new comedy. He was highly esteemed by the Romans, and placed in the first rank of comic poets with Plautus and Terence.

OÆCUM (Lat. cocus, blind), a name given in the higher animals to that portion of the intestinal canal into which the small intestine enters; properly speaking, it is the enlarged commencement of the colon. The cocum is situated in the right iliac region, and is of an irregularly triangular shape, pouched, about 8 times as voluminous as the small intestine which opens into it, and about 8 or 4 inches in extent between the ileum and colon; in front, it is in relation with the abdominal walls; behind, it rests upon the right psoas and iliac muscles, and internally it is in contact with the small intestine. Externally it presents 8 irregular prominences or divisions, separated by longitudinal depressions, 1 anterior and 2 posterior; it has also many fatty appendages contained in folds of the peritoneum; at its lower part, to the left side and in front, is the vermiform or cascal appendix, cylindrical, sinuous, about the size of a goose-quill, from 2 to 4 inches long, with a cavity communicating with the cocum. nally it presents 8 depressions corresponding to the external constrictions which separate them. Beside the opening of the vermiform appendix at its lower portion, on the left side is the ileocæcal or Bauhin's valve, guarding the outlet of the small intestine; this valve is elliptical, transverse, formed by a fold of the mucous membrane with two lips, the lower of which contains evident muscular fibres. The oscum has the usual 3 coats of the intestinal canal; the serous or peritoneal membrane envelops it, except on a small portion of its upper surface; the museu194 CÆCUM

lar coat is composed of the usual circular fibres, and of longitudinal fibres forming 3 bands somewhat shorter than the cwcum, and therefore corrugating it into folds; the mucous membrane has many mucous follicles, few villosities and no proper valrula connicentes; the appendix has the same structure as the cocum. The small intestine is not simply continuous with the larger, but opens into it at right angles to its axis, and at some distance from its commencement; this arrangement leaves a portion of the intestine in the form of a pouch (hence the name cacum), anatomically below the ileo-caccal valve, but physiologically or in the course of the food, above it; there is no definite limit between the cocum and the ascending colon. From its sitnation and structure the cucum is susceptible of considerable dilatation; in its natural condition the muscular contraction of its fibres is sufficient to close the lips of the valve, and to shut off all communication with the ileum; the office of this valve is evidently to prevent the regurgitation of the digested matters into the small intestine, at the same time that it allows a free passage in the opposite direction; from its projection inward, the greater the disposition of the contained matters to pass backward the closer would the lips of the valve shut, except in the rare cases where the small and large intestines should be fully distended from an obstruction below the valve. The use of the caecum is evidently that of a receptacle in which the digested matters may be delayed before passing into the colon, for the final extraction of any remaining nutrient materials; its shape, size, and direction adapt it for this, and comparative anatomy goes to prove it; in carnivora, whose food is fully digested in the upper portion of the alimentary canal, the cocum is very small; while in the herbivora, whose vegetable diet requires a longer digestion by a much slower process, this organ is largely developed; it is probably true that a habitual vegetable diet in man causes the enlargement of the cacum. The use of the vermiform appendage is unknown; it is generally considered homologous with the cecal appendages found in the lower animals, especially in birds; foreign bodies, as seeds and shot, are sometimes caught in this appendage, where they may excite inflammation and perforation, causing fatal peritonitis. When the product of digestion reaches the cæcum, it generally contains little more than innutritious, and insoluble and excrementitious compounds; the contents of the canal from alkaline now become acid; by some it is supposed that the acid is secreted by the numerous glands of the part for the more complete solution of any remaining indigested albuminous matters; this was the opinion of Tiedemann and Gmelin, and of Schultz, who believed that in the cocum a second digestion is accomplished, in a measure proportioned to the activity and completeness of the stomachal digestion; and this view was con-firmed by the large size of this organ in herbivora, in which digestion is very far from

being finished in the stomach; but from experiments of Blondlot it would seem lactic acid of the cocum is rather the pri of the transformation of saccharine sub subservient, nevertheless, to the complete un tion of albuminous matters. In the inverse brates, as in the cephalopoda, the intestine of has excal appendages, secreting a fluid, when have been regarded as a rudimentary pancre -Fishes have no cocum, but sometimes con appendages high up; in frogs and toads the is a cæcum into which the small intestine laterally, with or without a valve; in ophidians the large intestine is divided as pouches, the upper of which is comparable to cæcum; in the crocodile there is no but a valve between the small anu n intestine; both are generally present in w tles. - Birds, without having a proper cacus have usually 2 crecal appendages near the c mencement of the large intestine; these var size from mere rudiments in the goose to pa cesses 8 feet long in some gallinaceous birds sometimes there is only one, as in the inve brates and lower vertebrates.--In r the execum is usually large in proportion the vegetable nature of their food; in carnivora it is very small; in the insecti cheiroptera, and in hibernating animals ally, it is absent; in the edentata it is to wanting, but there are cæcal appendages own ing into the confines of the small and intestines, which are not very distinct; minants, pachyderms, and solipeds, the cases may be said to be enormous, being 21 feet lon in the horse, and 8 times as capacious as stomach; and, in the Cape hyrax, provided 2 additional cacal appendages; in some rodit is very large and subdivided by circular & and in the beaver is 2 feet long; in the c orous marsupials it is wanting; in the insecurrous small; and in the herbivorous 2 or 3 til as long as the body, and the wombat is me to have also a vermiform appendix; ornithorhynchus a small cæcum separaus small from the large intestine; in the rous cetacea the cæcum is present, in nivorous generally absent; in the quanthe cacum exists, and in the apes there = The si well-developed appendix. physiological office of the cæcum reliable to many diseases; its mucous 1 is subject to acute and chronic inflammaulceration, to perforation; its size and bility make it a favorite part for the le of hardened faces in cases of dyspepsa stipation, and loss of tone in its coats; it common locality for the imprisonment of especially in typhoid fever, in which gurgling movement of air and right iliac region is characte stages. Inflammation of the appeaus possible consequences have been all: with this exception, its presence or seems to be of no consequence; it is our ally wanting, or transformed into a solid o

usly long and convoluted, or variousd and adherent to neighboring parts, apparent disturbance of the diges-

N, the first Anglo-Saxon poet, died He was a swine-herd to the monks , and never gave evidence of any poetuntil one night a vision appeared to commanded him to sing. When he commanded him to sing. found the words of a poem in praise ator of the world impressed upon his This manifestation of talent obtained admission into the monastery at there he continued to compose de-An edition of his paraphrase the Scriptures was printed at Am-1 1655, edited by Junius. Thorpe an edition of it (London, 1832) for y of antiquaries. It has been said n took some ideas of "Paradise Lost" poems of Cædmon. It is certain were very popular among the English axon part of the Scottish nation, and plentiful materials to the makers of and miracle plays. The only manu-Zedmon extant is to be found in the ibrary at Oxford.

S AURELIANUS, a Latin physician, nerally supposed to have been a native a, and to have flourished in the 2d cen-Ohristian era. He was a member of the Methodici, and the author of a ork still highly esteemed. In this work, rides diseases into 2 great classes, the the chronic, to the former of which devotes his first 8 books, and to the remaining 5.

18 MONS, one of the 7 hills on which built. It is not known by which of kings it was added to the city. have received the name of Cælius ins Vibenna, an Etruscan leader, who

the chief town of the department of France, pop. in 1856, 41,394, on the 1. from its mouth. It was indebted for ance to the dukes of Normandy, who d it with massive walls, flanked with d erected a castle for its protection. he Conqueror built here a large nown as the abbaye aux hommes, sphen's church, where he was bur-his queen, Matilda, was the found-

ar church, the abbaye aux femh is a perfect contrast to the austere the former. Under the conquer-successors, Caen grew wealthy trade and manufactures. Its prosnued under the French kings; u 1848, when, a short while before of Crecy, it was taken by King Edthe black prince, and given up to English found it, according to account, "large, strong, and full of all sorts of merchandise, rich

citizens, noble dames, damsels, and fine churches;" and their fleet returned home laden with its spoils. A second time, in 1417, Osen was taken by the English, and King Henry VI. founded there a university, which became celebrated. In 1450 it surrendered itself to Dunois, and was renowned for its loyalty to the French kings. It suffered a good deal during the civil and religious wars of the 16th century, being, in 1562, pillaged by a party of Huguenots. The revocation of the edict of Nantes (1685) inflicted a deadly blow on its manufactures, by banishing its most skilful artisans. During the revolution, on the fall of the Girondists, May, 1798, several leaders of the party repaired to Caen to organize a revolt against the convention, but were soon put down by the revolutionary forces. From here also Charlotte Corday set out to Paris to assassinate Marat. In more recent times the streets of the city have been enlarged and straightened; squares, the most magnificent of which is that called Louis XIV., have been opened; the castle has been partly demolished, and the portion of it that still remains is a prison; the walls have nearly disappeared, and fine promenades have been planted, the principal being called Grand Cours and Cours Cafarelli, by the side of the Orne; but the most important monuments and institutions have been preserved. Beside the 2 churches above mentioned, that of St. Peter, near the centre of the town, is noticed for its beautiful spire. university of Henry VI. has become an academy dependent on the French university. The conventual buildings adjoining the abbaye aux hommes have been converted into an imperial college, numbering about 800 students. are beside a secondary school of medicine, a school of hydrography, a public library, containing about 50,000 volumes; a botanical garden, with a good collection of plants; museum of pictures and natural history; a school for the deaf and dumb, and several other learned and charitable institutions. Caen is a favorite resort for English families, English service being regularly performed in a French Protestant church. The lace manufactures are the most important, and are said to occupy 20,000 women and children in and about the town. It is also famous for the manufacture of Angora gloves, great numbers of Angora sheep being reared in the vicinity. The town is an entrepot for salt, and has an extensive coasting and export trade in paving, granite, and building stone. (See Carn Stone.) Several large fairs are held for the sale of the industrial and agricultural produce of the country. women of Caen are said to be handsomer than in most other parts of France, and their beauty is still enhanced by the originality of their tall, white Norman head-dress, ornamented with lappets behind, and sometimes with lace. Caen is connected with Paris by a railway, which passes Lisieux, from whence a branch leads to Honfleur. A railway to Bayeux, and from thence to Cherbourg, is in course of construction, and one to

Alencon is projected. A canal, connecting Caen with the ocean, which cost \$1,800,000, was completed in Aug. 1857. The port admits vessels of 150 to 200 tons. In 1854 Caen owned 92 vessels, of an aggregate tonnage of 7,546, and a steamer of 43 tons. The entrances of foreign vessels amounted to 1,874 in 1853, 82,113 tonnage, and the clearances to 1,089, 61,646 tonnage. Malherbe, Auber, the composer, and other eminent persons, were born here, and Beau Brummell and Bourrienne, Napoleon's secretary, both died here in the same hospital for lunatics.

CAEN STONE, a soft cream-colored or light yellow sandstone, which is quarried near the above-described city. The stone, from its soft shade and even grain, and the ease with which it is worked, is highly esteemed for building purposes. It is exported in large quantities, and some of it finds its way to this country. The Nassau Bank in New York city is built of it.

CAER CARADOC, or CRADOCK HILL, an eminence near the confluence of the rivers Olun and Teond, in Shropshire, England, at the top of which traces of the camp in which Caractacus was besieged by the Roman general Osto-

rius are still visible.

CAERLEON, a market town of Monmouthshire, England, 162 miles from London, possesses much antiquarian interest. It is be-lieved to have been the capital of Wales, and was an archbishopric soon after the introduction of Christianity in Britain. It was a Roman station (Isca Silurum). A space of ground which has received the name of Arthur's Round Table, is believed to have been a Roman amphitheatre. There are also remains of an ancient castle, and various antiques have been found. A building has been erected as a museum of antiquities. There are places of worship for the Wesleyans, Primitive Methodists and Baptists, and the parish church has a

tower of early English style. Pop. 1,281.
CAERMARTHENSHIRE, or CARMARTHENSHIRE, a county of South Wales, Great Britain, contains 947 sq. m.; pop. 110,682. It is a mountain district, the highest hill being 2,596 feet high. The principal river is the Towy, a stream of great resort for beautiful scenery and angling. Another river, the Taff, is also dear to excursionists. They are small streams, not over 50 miles in length.—Iron, lead, coal, and limestone are the chief mineral productions. Caermarthenshire was the scene of the final struggle for Welsh independence under Llewellyn last of the princes. The disturbed state of the Welsh marches for many years compelled the erection of baronial castles, of which there are many remains in various degrees of preservation.—The chief town of the county is Caermarthen, a parliamentary borough, 245 miles from London by rail. It is beautifully situated on the Towy, a few miles from the bay of Caer-marthen. The town is irregularly built and the streets narrow, but the inequalities of the site give an air of picturesqueness to the

place. There are some ancient remains town and in the neighborhood. Stee thor was buried in the parish chur Peter. General Picton, one of the the Peninsular war, and Lord Nott, t general, were born here. Ceermarther grammar-school, a Presbyterian se South Wales training college, nation and infant schools, an infirmary, and and scientific institution. The inhab occupied in tin works and iron founde fishing, chiefly of salmon and sewin, is with drag-nets in coracles, a kind of known to the ancient Britons. coasting trade is carried on with Bris principal exports are timber, marble slates, lead ore, bark, grain, eggs, an

Pop. 10,524. OAERNARVON, CARNARVON, or VONSHIRE, a county in the norther Wales, bounded on the W. and N. by von bay and the Menai strait. It of 579 sq. m., and its population in 87,870. The surface is mountainou traversed by some of the loftiest range ain. One-half of the land is barren valleys produce oats and barley. of cattle and sheep affords employ many of the inhabitants, and there of copper, lead, slate, and coal, which ed with some profit. The county into 10 hundreds and 71 parishes. von, or Carnarvon, the capital of t county, is a parliamentary and munic ough and seaport town, on the E. Menai strait. The town is defended and surrounded by suburbs of double i within the limits of which are numer some villas, bathing race walk along the : pier. In the vicinity are: marquis of Anglesea, Loru wborou Boston, &c., and the site of the ancies station of Segontium. At the W. et town stands a magnificent castle, built of Edward I.; over the principal gat statue of its founder. The castle and gether occupy a space one mile in cir a fart of the edifice called the "ex Edward II., the first Anglo-Norm Wales, was born. Caernarvon which will admit vessels of 400 was but its trade is chiefly carried on by and by steamers running to Liv and coal, the former brought by quarries ten miles distant, are t exports. Pop. in 1851, 8,674. CÆSALPINUS, ANDERAS (AND

PINO), an Italian physiologist, b in Italy, in 1519, died Feb. 28, a youth he manifested little inclin and still less for the oved schu of it, and received are his masters. A c an appeal to his amount am-his independence, called 1

He rose above his fellows, and scomfited his teachers in discussions e raised upon matters in every branch ing. He is first mentioned in public professor of botany in the university He was subsequently made chief phy-Clement VII., and lived during nder of his life at Rome. He pub-1 the highest questions of philosophy. publication, entitled Speculum Artis oraticum, his knowledge of the carest manner. The following passage from the second chapter of its first For in animals we see that the nuis carried through the veins to the heart aboratory, and its last perfection being ined, it is driven by the spirit which a in the heart through the arteries ted to the whole body." The sysed since the time of Harvey could re definitely or accurately stated. are found in other of his philosophical speculations are mainly in his Quastiones Peripahis work had great success, especially and been violently attacked by Parker, of Canterbury, and after a Frenchman 1 had gone through with what he ine task of refuting it. The philosocupinus was scholastic Aristotelianus leaning toward some of the methods s of the later transcendental or abso-He reduces the world to the it us two only substances, God and he makes all finite intelligences, all c, and demoniac souls, to belong to Two things are remarkable your: 1, the boldness of speculamalleled in his age, with which he seeks recientific view of the universe; and ntirely materialistic character, which attributed, at least in part, to the spirtime in which he lived. Most kindred io efforts in more modern times, that for instance, have been founded spiritual principle.—But more than either his anticipation of Harovery, or his speculative opinions, botanical labors. He was styled by first orthodox or systematic botawork on plants was a hand-book to um all his classifications. Botany in a of Casalpinus was the popular witch-a science, it consisted in a mass of about the imaginary but marvellous un plants. Cæsalpinus sought successtransfer it from the realm of magic to He proposed the basis of clasn which the whole system of Linnamely, the distinction of plants in of fructification. He even, to connt, carried out the principle of the sally, and defined many classes

- they remain in the Linnman ar-

rangement. Cossalpinus lived quietly to an old age at Rome, submitting all his speculations to the supremacy of the church, and presenting in his life an example of every virtue.

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OÆSAR was the name of several members of a Roman patrician family, of the Julia gena, who traced their origin from Iulus, son of Æneas. Made glorious by Julius Cæsar, it was assumed by his adopted son, Augustus Octavianus, and handed down to Tiberius, Caligula, Claudius, Nero, who were, either by adoption or by female descent, still members of the same family, and retained as a name of dignity by their successors of other families. When Hadrian shared his throne with Ælius Verus, he dignified film by the title of Cæsar, which was, after the division by Diocletian, that of the second persons or reigning princes of the empire, chosen by the Augusti. It is the origin of the German Kaiser (emperor), and the Russian czar.

CÆSAR, Caius Julius, of whom no one writes without quoting the line of Shakespeare,

The foremost man of all this world,

was born precisely 100 B. C., and lived 56 years. The month in which he was born (Quintilie) was named July (Juliue) after him, and the 12th day of that month was his birthday. His father, of the same name, was of prætorian rank, and his mother belonged to the family of Aurelius Cotta. From the earliest age Caius Julius gave evidence of the most extraordinary endowments. He was quick to learn, of wonderful memory, the liveliest imagination, and indefatigable diligence. In his 17th year, having been married to one Cossutia, he procured a divorce in order to marry Cornelia, a daughter of Cinna, then a leader of the democratic party. His aunt Julia had previously married Marius, another great democratic chief; and thus by a double connection Casar was brought upon the popular side. Sylla was the master-spirit of the patricians or aristocrats, and, discerning the superiority of the young Ossar, sought to detach him from the party he had adopted, by persuading him to repudiate his wife. Cosar, a spirit which showed the intrepidity of his character, refused to take the advice of the allpowerful Sylla, whereby he incurred his resentment. Sylla stripped him of his wife's dowry, of the fortune he had inherited, and of the office of flamen dialis (priest of Jupiter) which he held. Ossar deemed it advisable, in this emergency, to quit Rome, and escaping the satel-lites of Sylla, who tracked him in his flight, he took refuge with Nicomedes, king of Bithynia, in Asia Minor. Suctonius, who was a garrulous court-gossip, tells some scandalous stories of Casar's licentious relations with Nicomedes, which only a vulgar mind could repeat or be lieve. Municius Thermus was then prestor in Asia, and procured Casar to conduct a siege of Mytilene which he did with remarkable energy and success, although but 22 years of

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The death of Sylla allowed him to return to Rome, where he indicted Dolabella for extortion in Macedonia; but the senate, which was the jury, saved its friend and partisan. In the attempt of Æmilius Lepidus to overthrow the senatorial oligarchy, however, he did not take part, having sagacity enough, doubtless, to see that the time had not yet come. Beside, the credit he had gained as an orator in the case of Dolabella put him on the design of cultivating eloquence, for which purpose he set out for Rhodes, to receive the instructions of Molo, who, a year or two before, was Cicero's teach-On the way thither he was captured by a band of Cilician pirates, who detained him 38 days. They asked a ransom of 80 talents (over \$80,000), which he laughed at, saying that if they knew who he was they would demand 50. He consented to pay it, but told them that if he ever caught them afterward, he would crucify every mother's son of them. Arrived at the island of Delos, he was set on shore, and paid the ransom; but he immediately organized a small fleet, sailed in pursuit of them, came up with and captured them, and taking them to land, reported their case to the Roman proconsul. But while that magistrate was considering what was to be done, Cosar remembered his threat, and executed the whole gang. He then went to his lessons.—In the year 74 B. C., hearing that he had been chosen one of the pontifices, he returned to Rome, and for a while led a life of pleasure, some say of gross debauchery, winning the good opinion of the people by his affable manners, and a careless, open-handed generosity. In 69 B. C. he was chosen a military tribune, and 67 B. C. a questor, in which office he delivered a panegyric on his aunt Julia, the wife of Marius, and he also caused the bust of Marius to be carried in procession, for the first time since the dictatorship of Sylla. While he was questor he also served in Spain, rather distinguishing himself by his military capacity. In 65 B. C. he was elected ædile, and this office, being connected with the public entertainments, gave him an opportunity to display his taste for magnificence. He raised statues to Marius, enlarged the theatres, and gave splendid games and festivals. He came out of it several millions of dollars in debt. During his ædileship, 63 B. C. the conspiracy of Catiline was discovered, and Ossar was suspected of complicity in it; but he had probably too much good sense to involve himself in so desperate and crazy an under-taking; the objects and importance of which, moreover, have been greatly exaggerated by Cicero. When the matter came up in the senate, a year later, he effectually quashed such tales. He defended the conspirators, however, from the punishment of death, holding that it would be wiser to scatter them, and keep them under strict guard. At the same time he was aspiring to the place of pontifex maximus, one of considerable influence and emolument. Catulus, an opposing candidate, offered to pay his

debts if he would withdraw, but Case that he would borrow more money th it were necessary to his success. On t election he remarked to his mother day would see him either the chief Rome or a dead man. He was electe more votes from the tribes of his oppor they did themselves. The next yes came prætor, and, on laying down ti was transferred, as was the custor government of a province. He selecte but before he departed, his credite him, and his friend Crassus had to be security to the amount of nearly 2! He achieved not a little military s Spain in a cruel war against the nati and then hurried back to run for th ship, the first office of the republic. chosen, and administered the governs unexampled vigor. His colleague was who attempted in the outset to chec his objects, but in a short time Bibuli completely outmanaged that the Ro used to say that the two consuls we and Casar. He restrained the uncons powers of the senate, procured the par law for the distribution of lands poorer classes, gained the favor of u trian order by releasing it from an c contract, and made himself an immer ite with the people. It was then formed his coalition with the great and the immensely rich Crassus which as the triumvirate.—At the close of he was given the government of Cisalı with Illyricum, for 5 years; and th the more effectually to get him out of added Transalpine Gaul (France) to the 59 B. C. This opened a new career t he had hitherto served in civil em chiefly, but was now to engage in a lal would test his military talents. The were asked to settle the disputes of 1 tribes, warring among each other for tl ency, and also to help them repulse (Germans), who were beginning to in lord it over the country. Caesar ter in hand, drove off the Gen Cæsar took several revolts of the Gallic tribes, a determined the subjection of the prov 8 years of bloody and brilliant which his term was prolonged for years, he reduced the whole of Gau the Rhine twice, and landed, the the Romans, twice in Britain. Po great rival, now procured a law Casar, who refused to obey, and w ened with being declared the the republic. The tribunes of the fused to confirm the decrees, when t treating their negative with contempt. Cosar, and directed the consuls "to p the safety of the republic." The tr paired to Casar, who had now by mea accession got the law on his side, and diately passed the Rubicon, a suns OÆSAR 190

his province from the territories of ; in order to march upon Rome. sequivalent to a declaration of war senate, who prepared for their dempey acted as their commander-in-the popular feeling soon manifested scidedly in favor of Cæsar, that the party ran off to Greece. Cæsar purthere; and then for years a war h led Cæsar into Spain, "to defeat rithout a commander before defeating ander without an army;" all over Thessaly, where the great battle of or Pharsalus (48 B. C.) decided for Pompey: to Egypt, where he went

Pompey; to Egypt, where he wept of the head of his great rival, my killed there, and where he devor of the charming Egyptian woman, e for the throne between the last and Cleopatra; into Pontus, against son of Mithridates, where he could idi, vici; into the province of Africa, lefeated M. Scipio, but could not conwho preferred, at Utica, a noble death

the rule of a single man. The denot give; but the one grand result star was proclaimed by popular gratior for ten years. The rapidity of his energy of his battles, his mastery and men, indicated him as the only capable of controlling and ruling and turbulent state. He set to reanizing the nation, though perupted by the remains of the sena-

v. The sons of Pompey rose against, which compelled him to go thither wern (at Munda 45 B. C.); on his was hailed as imperator, and invested eign powers; the appellation of Pater he father of his country," was voted coins were stamped with his image; allowed to wear at all times a crown n his head. This excess of subservipart of the multitude, won and deludriumphs, and his more than kingly extraordinary liberality, kindled anew wof the aristocratic faction, and must

d all the more moderate. But the y of the new and servile senate carto a still higher pitch of adulation, red the statues of Cæsar to be carried essions along with those of the gods; sted temples and altars to him, and priests to superintend his worship, to have been pleased with these

i; yet the story is inconsistent which represents him as eager to a title of king; he that was already not have cared about an inferior my rate, the latter story was believed, ber of young patricians availed thembe Roman aversion to a monarchical loak to a design for Cæsar's assassinans Cassius was the ostensible leader spiracy, assisted by the stern Brutus, persuaded to sacrifice his benefactor,

as his ancestor sacrificed his sons, to the republic, not reflecting that it was easier to save a young than a decaying and corrupted state. Ossar was absorbingly engaged in his reforms of the government, and in the endeavor to consolidate the public order, to which end he had projected and partly executed several vital measures. While thus restlessly engaged he was, though warned, it is said, by signs and dreams, surprised by the blows of the conspirators on the ides of March (44 B. C.); wrapped in his togs, he sank, covered with wound at the foot of the statue of Pompey; and Rome was again plunged into civil war, and became a prey to the profligate Antony and the selfish Octavius. The heads of the conspiracy, Brutus and Cassius, fell at Philippi (48 B. C.)—As a general Cosar stands in history among the first, having no equal except the modern Napoleon; as a statesman, the highest rank is conceded to him; as an orator he was compared to Cicero; and as a writer, he surpassed Xenophon, and was only less than Tacitus. He was what the Germans call "a many-sided man," touching life by every fibre, and great in every thing that he touched. Beside his masterly "Commentaries," the memoirs of his own life, he wrote on grammar and on rhetorio; he wrote tragedies, satires, and lyrics; he reformed the calendar as well as the state; and all the accounts agree in representing him as the most perfect gentleman of his day. In one thing, however, he was deficient; his moral sensibility was not equal to his intellectual acuteness or to his force of will; and the record of his life is stained by acts of profligacy, by cruelty, and by a terrible and needless wasto of human life. In person, Omsar was tall and spare; his face was generally pale, his body weak and subject to epileptic fits; and it was his mind alone which made him master of the world. He was extremely nice in all his taste but not fastidious; amiable and courteous, but very decided; careful of the feelings of his friends and generous to his enemies, except when he deemed those enemies incorrigible, when he became as stern and remorseless as an oriental tyrant. Niebuhr calls him a "demoniac man," driven restlessly onward by the impulses of his genius, vastly in advance of all his contemporaries, but at times sinking himself, through ambition, to their level.—His great works are the Commentarii de Bello Gallico and de Bello Civili. The first is in 7 books, containing the incidents of as many campaigns; an 8th book was afterward added by another hand; it contains an account of his actions while in Gaul, during which time he invaded Britain and Germany. The second describes his contest with Pompey until the time of the siege of Alexandria. It is not known when he published the first, but it was probably about 51 B. O.; the second was published 47 B. C. Both these works were written immedistely after the events occurred, and are therefore important as authorities; they contain much geographical and military information,

especially the latter; so much so that Napoleon consoled himself at St. Helena by studying the marches and exploits of this great commander. His style is noted for its simplicity, naturalness, and purity, for which qualities nothing in the Latin language can be compared to it. Cesar's veracity has been called in question by Asinius Pollio (Suetonius, 56), and by several writers afterward; Schneider, particularly, advances the opinion that the object of his first work was political, to give the public a favorable idea of his talents, and to confound the plans of his enemies who were attempting to destroy his popularity; and of the second to appease the anger of the partisans of Pompey, who considered him the support of all true patriots. This opinion has been very ingeniously maintained, but the greatest difficulty is to reconcile it with the simplicity of Cæsar's style. Cæsar is mentioned in terms of unqualified praise by Cicero in his "Brutus." Tacitus also, in his "Germania," calls him summus auctorum dious Julius, auctor here, as frequently in the classics, meaning "historian." The genuineness of these "Commentaries" has also been questioned. Julius Celsus, at Constantinople, published an abstract of Cæsar's Commentaries, from which arose the report that he was the original author; it is without foundation, as there is a previous Greek translation of Cæsar by Planudes. Many think, and with reason, that Cæsar wrote a diary; Servius has a passage which is not in our copies, under the title of "Ephemeris." and Plutarch has one under the same title which has come down to us, showing that some thing of the kind was written by him. He left some orations, letters, apophthegms, a treatise on Analogy, Anticato, &c., all of which are lost, except the letters which are preserved in the works of Cicero. The supposed author of the 8th book, and also of the additions to the civil war, is Aulus Hirtius, a legatus of Casar, who died 1 year after him at Mutina (now Modena), where both the consuls Hirtius and Pansa were slain. It has been thought that Hirtius wrote the Bellum Hispanicum, but the style shows it to be the work of a different hand. The ancients had something very nearly resembling our newspapers, in what were called acta; they originated during the consulship of Casar, 59 B. C., who first published the proceedings of the senate; these were continued until the time of Augustus, whose policy forbid the publication of these proceedings, although a private register was kept; he allowed, however, the public acts of the people to be published. There have been many editions of Cæsar's works; the editio princepe was published at Rome in 1469, being, therefore, among the earliest of printed books; a good edition is that of Oudendorp, Stuttgart, 1822; and of Herzog, Leipsic, 1831-'34.—The ancient authorities for the life of Carar are the biographies by Suetonius and Plutarch, the letters and orations of Cicero, and the histories of Dion Cassius, Appian, and Velleius Paterculus.

CÆSAR, Sir Juliua, an English civborn at Tottenham in 1567, died April 28, He was educated at Oxford, and studied is university of Paris, where, in 1581, he rec the degree of D. C. L. He was apporting high offices under Queen Elizabeth, and James I. was knighted, made chancellor exchequer, member of his majesty's privyicil, and master of the rolls. Under Charalso he was privy councillor.

OÆSAREA, a ruined and desolate coast of Palestine. Its walls, market place, churches are still partially standing, the greatly decayed. This town was founded by standing the greatly decayed. This town was founded by standing the greatly decayed. This town was founded by standing the greatly decayed. This town was founded by the Christian era, by Herod the Great gave to it its present name, in honor of A tus. It is memorable in the apostolic to for Peter and Paul, became under the Rethe capital of its province and the resist the Roman proconsul, and received new from Vespasian and Titus. It was tan 635 by the Saracens.

CÆSAREAN, or CESAREAN, OPERAT the taking of a child from the womb by ting, so called from Julius Cassar, who said to have come into the world in this This operation was first performed on w who died in childbirth before the child 1 and as a means of saving the life of the which would otherwise have been lost, a as that of the mother. After the publicati the work of Eucharius Roslein, at Wo 1513 ("The Rose Garden for Midwives anu nant Women"), and the improvements in tric science made by Vesalius in Padua, the Cæsarean operation was not only perfe in all such cases, but was commanded by a means of saving the life of the child. u Francis Rousset, a surgeon in Paris, put a treatise, in which he gave proofs of the sibility of safely performing the Cosarean tion on the living mother, in cases of tion and impossible natural delivery. first gave the present name to this op which from that time forward has ofte performed on the living mother with co success, though not invariably.-When any cause the antero-posterior diameter superior strait of the pelvis, or the trat diameter of the lower strait, is not more t inch, the head of the child cannot pe there is no possibility of delivery per e rales. It then becomes necessary, if be living, to resort to the Cosarean as the only means of delivery. Dr. Cl who is one of the highest authori question, states "that in cases wb tient cannot be delivered by any ot and when, consequently, both mother a would inevitably die, a chance of savi lives of both is afforded by the Cosseres tion." In this operation the walls of the men are carefully opened in front of the which is also opened, and the child is tal the womb, in lieu of passing through descent. The best period for operae commencement of the labor, probe no doubt as to the necessity. h of the parturient woman is then ; she can bear the operation better, s risk of inflammation.

BASSUS, a Roman lyric poet of Nero, praised by Quintilian as seco Horace. He was the friend of l is thought to have perished by an

Mount Vesuvius.

L or CESTUS, in classical antiquity, a ed by pugilists at the public games. covered the fist and wrist, and exently to the elbow. Originally the othing more formidable than thongs in later times knobs of lead and nails

A, in Latin poetry, the name given in of the verse by one or more

untain fabled by the Mohammedincircles the whole earth. It is the nts and fairies, and rests upon the Sakhral, one grain of which gives powers to its possessor. This stone rald color, and its reflected light is the tints of the sky.

ELLI, FRANÇOIS MARIE AUGUSTE, a ral, born Oct. 7, 1766, at the chateau ute Garonne, died Jan. 23, 1849. At g of the revolution he was employed

army, but joined the army of as a simple dragoon. In 1804 he I with the mission to Rome to inse to come to Paris to perform the ' Napoleon's coronation, and on his nade governor of the Tuileries. He d at Austerlitz, accompanied Prince taly, and took a part in the war in 1814 he was chosen by Napoleon to empress and their son from Paris to e retired from public life after the terloo.

ELLI DU FALGA, Louis Marie ench general, born at Falga, Feb. 18, Syria, April 27, 1799. He protestne right of the national assembly to king, and was dismissed from the nprisoned. Being released and redistinguished himself in the army under Jourdan. He accompanied of Napoleon to Egypt.

the active principle in coffee, ed by Runge in 1820. It is a weak atical in chemical composition with ive principle of tea. Being found

es of coffee as well as of tea, sou as drinks by a large portion of race, it no doubt possesses some importance to the animal system. ther substances contain so large a of nitrogen gas as caffeine, its perhis element amounting to 21.6. Its , as shown by Liebig, is represented by the formula, $O_8H_5N_2O_2$, by which it appears to be closely related to some of the nitrogenized constituents of bile, as taurine. It is obtained crystallized in long silky needles of a white color, which are fusible and volatile, and are easily dissolved in water, alcohol, and ether. To a decoction of coffee or tea, acetate of lead is added to precipitate the caffeotannic acid. This is separated from the solution by filtering, and the excess of lead is removed by its precipitation by sulphuretted hydrogen. The liquor again filtered is then evaporated, and the caf-feine crystallizes. It is purified by dissolving and again crystallizing. The quantity obtained from coffee is generally about 1 per cent., which is only 1 the amount furnished by tea; as the infusions are prepared, however, for ordinary use, more of the active principle is contained in a cup of coffee than in one of tea. Robiquet and Boutron give much larger proportions than 1 per cent. In Java coffee they found 4.4 per cent. of caffeine, and in Martinique coffee 6.4 per cent. Caffeine has a bitter taste, and acts powerfully upon the system when taken in doses of from 2 to 10 grains. It causes palpitation of the heart, great irregularity of the pulse, oppressions in the cliest, and pains in the head, confusion of the senses of hearing and seeing, sleeplessness and delirium. The substance may be recognized by its great volatility, and the property it possesses, when dissolved in nitric acid, evaporated to dryness and exposed to am-

moniacal gas, of giving a pink-colored blush.

CAFFILA, a company of oriental travellers. It differs from the caravan only in being in the employ of a single sovereign, and in being organized for a single common object; while the caravan is composed of merchants, each acting on his own account, and without organized or

permanent union.

CAFFRARIA AND CAFFRES, a country and a race of men in the E. part of South Africa, from the N. E. frontiers of the Cape Colony, about lat. 32°S., to Delagoa bay in lat. 26°S. Caffraria is bounded on the west by the Transvaal republic. The inhabitants, or Caffres, from whom the land receives its name, were so called by the Mohammedans, who applied to them the Arabic name Kafir, or unbeliever. The men are powerfully and symmetrically built, the females superior in beauty to the other native races of southern Africa. The complexion of the southern Caffres is brown or copper color; it becomes darker as you advance north, until it is deep black. Their hair is black and woolly; the nose and forehead approach the European type; the cheek-bones resemble those of the Hottentot, and the lips are thick and prominent. They have but little beard. Their language is tolerably rich, and superior to the speech of the Bosjesman and Hottentot. Their government is patriarchal; a petty chief presides over every knaal or hamlet, and is tributary to a higher chief. These higher chiefs owe allegiance to the *Umkumkani*, or great chief, and form the national council. They live

by the raising of cattle and hunting. Their argiculture is attended to by the women. They have no notion of a Supreme Being, but are devout believers in witchcraft and spirits, and the shades of their ancestors. A Caffre swears by the spirit of his ancestor. Their charmdoctors, rain-makers, and prophets exercise great power. They circumcise the boys at the age of 12 or 14, and abhor the flesh of swine and all fish except shell-fish. Christianity has not made much way among them, although missionary stations have been planted there for 40 years. The great stumbling-block is the Christian doctrine of monogamy. Their huts are hemispherical, thatched with straw and plastered with cow-dung. There is no chimney; the fire-place is in the centre. They preserve their inillet in pits dug in the ground. The men often go totally naked. The Caffres are divided into 4 tribes: 1, the Amakosa, who border upon the British settlements; the Caffre war of 1847 resulted in stripping them of the greater part of their territory; 2, the Amatemba or Tambookia, whose westernmost territories border on the back territory of the colony toward the sources of the Great Key; 8, the Amponda or Mambookis, and 4, the Zoolah or Zooloo, who inhabit the northern portion of Caffraria and extend far inland. Their territory has been much diminished by the British and Dutch settlers. Their native weapons were clubs and javelins, but they have learned the use of firearms from their enemies, and are very formidable opponents in mountain and bush warfare.—British Caffraria extends from the Keiskama to the Great Key river, and is divided into the counties of Northumberland, York, Sussex, Middlesex, Cambridge, Lincoln, and Bedford. The capital is King William town on the Buffalo. The principal forts are Wellington and Cox. The Caffre population of this territory has been partially won over to civilization. The importation of arms, gunpowder, and spirituous liquors among them is strictly forbidden. The territory was finally annexed Dec. 23, 1847. The climate of Caffraria is healthy and well adapted to the European constitution. The country is beautifully wooded, rising in terraces from south to north, and is watered by several rivers. The aloe, the gum-tree, and the plantain abound; lions, elephants, hippopotami, and rhinoceroses are to be found, but are becoming

CAFFRISTAN, or KAFIRISTAN, a region amid the Hindoo Koosh mountains of Asia, between lat. 35° and 36° N. and long. 69° 20' and 71° 20' E. The country consists mainly of snowy mountains and sterile hilly districts, but has also a few small and fertile valleys, which produce abundance of corn and fruits. The houses are built on or rather in the slopes of hills, and placed one above another, so that the roof of the lower house forms a pathway to the one above it. Caffristan received its name, which means "the land of the infidels," from the circumstance that the occupants of this region could never be converted to the Mohammedan faith. They are described as a fine and handsome race. In government they have no common chief be each tribe obeys a leader of its own, and ther are all united only in hatred to the Mohamme ans. No Cafir is decined worthy of bonce till he has killed a Mussulman. In religion they are said to acknowledge one supreme God, but they also give worship to numerous inter-cessorial idols. Their language resembles the Sanscrit, and is spoken with considerable variations of dialect in the different valleys.

CAFTAN, the national garment of the Persians and Turks. It is a loose, flowing rote, generally white, and ornamented with inwrought flowers.

CAGAYAN, a province of Luzon in the Philippine archipelage, the largest and less productive division of the island. It extends from Cape St. Vincent, the northern extensity of the island, in lat. 18° 40', to 17° 10' N.; and from the Pacific ocean, its eastern boundary, to the Sierra Madre range of mountains, which bounds it on the west, the distance is about 75 miles; area 9,102 sq. m.; pop. in 1849, exclusive of wild races, 85,839. The large river, called Cagayan, Sallo, and Aparri, at different points, by the natives, but named the Tajo or Tage by the Spaniards, flows through this province from south to north. This river is navigable by vessels drawing not more than 13 feet d water, for a distance of 75 miles. At its month, on the left bank, is situated the town of Apari, having about 7,000 inhabitants. There is a good harbor at this place, which affords shelts to the numerous fishing fleets, which find itable occupation in Balingtang straits, as: the vicinity of the Babuyanes group of The waters of the Cagnyan Tagus are for the great abundance of good fish . they contain. Indeed, the land is less pr tive than the water; the soil of Cagayan, is exposed to a humid and stormy climate. duces only maize for food, and so tobacco for exportation; but it a lent pasture for hardy breeds of manual cattle, which are in considerable d Manila and in the southern portions of This rigid soil and ungenial atmosphere favorable to the development of the most getic and intelligent of the Philippine The bravest soldiers in the races. East Indian armies are obtained from ince; and those active and skilful much in demand by East India 1 reas and commonly known as " Manila men. are generally shipped at Manila, nearly from Cagayan. The Spaniards give Cagayans a high reputation for b Catholic priests, in their accounts on su this province, represent in glowing the frank and truthful nature of the tants. Beside this dominant, and most ous brown race, there are to be found rocky fastnesses of the Caravallos and a

es of mountains, many tribes of rarf oriental negroes; those east of known as Negros caribos bravos; nes west, as Infieles calanas bravos. ar, untamable little sayages are the brown and civilized races. f the province is much retarded by destructive forays of the Negrito a into the cultivated lands of the gayans. Spanish missionaries, so lsewhere in Luzon, after making utterly fruitless efforts to produce influence among these tribes of deemed their extermination or imperatively necessary; but the of the Philippines, which has en guided by a humane policy, I to adopt measures for that purnumber of the wild inhabitants has been variously estimated by thorities at 7,000 and 10,000. n great abundance, is found in e, and grain gold in alluvial dechief wild animals are the deer ; the latter being as plentiful in of Cagayan as in the neighboring islands, which receive their name rcumstance. Many of the forest superior quality for shipbuilding; nd sapan-wood are produced.

N SOOLOO, an island of the Malay in the sea of Mindoro, intersected , and long. 118° 36' E.; area, 85 sq. out 12,000. This island was viscompanions of Magellan in 1521, ta speaks of it as being inhabited Moorish pirates, much resembling, warlike accoutrements and welltem of military organization, their temporaries on the shores of the The piratical character of the o of the rest of the Sooloo group to ongs politically, has been preserved, ical organization has declined. The rs of Cagayan Sooloo, who went g the 16th and 17th centuries, equal in numbers and force to leandinavian Rollo or Hastings, to most remote islands of the archieven the coasts of Asia, have been y a number of petty chieftains, who, half a dozen war prahus, occasion-: a Chinese junk, or a Bughinese and sometimes an unarmed Eu-When piracy becomes nial ship. by reason of the surveillance of a ip of war, a little commerce is carh the northern ports of Borneo in tortoise-shell, and with China in

The people of this island resemble ace in appearance, but speak a lanly different, partaking somewhat of a of the Tagala in construction, and ge portion of words used in the mippine languages. The Sooloo more guttural than any other spoken in the Malay archipelago. The Arabic character is used in writing. The Cagayan islanders cultivate rice, and have enclosures of well-assorted fruit-trees; they plough with oxen, rear a variety of domestic poultry, make for themselves very handsome and tastefully ornamented garments, and fabricate their own weapons, and agricultural and other implements. The island has been visited several times lately by Spanish ships of war, and by Spanish agents, and is now regarded, though by no means conquered or taken possession of, a dependency of the government of Manila.

a dependency of the government of Manila. CAGLIARI, the southern part of the island of Sardinia, divided into 4 provinces, Cagliari, Iglesias, Isili, and Oristano, and a capital of the same name (anciently Caralis), which is situated in a recess on the southern coast of the island, in lat. 39° 13' N., long. 9° 7' E. It is built on the slope of a steep hill which rises from the coast, and it presents an imposing appearance from the sea. The highest part contains the principal public buildings—the castle, with the viceregal palace, the cathedral, built during the 14th century, and the university, with its 4 departments of theology, law, medicine, philosophy, and belles-lettres, and having 24 professors and 300 students. Cagliari has also a public library of about 20,000 volumes; a museum containing medals as old as the Carthaginian period, several public seminaries, many churches, and 21 convents. It is the see of an archbishop, the place where the states-general of the island assembles, and the principal port of the island. Its more important exports are corn, oil, wine, tobacco, firearms, and soap. During the occupation of Sardinia continental by the French at the beginning of this century, the king of Sardinia took up his residence at Cagliari. A submarine telegraph communicating with Bona, in Algeria, and another with Malta, have been in operation since 1857. Pop. about 30,000.

CAGLIARI, BAY OF, a bay of the Mediterranean, on the S. coast of the island of Sardinia, between Capes Pula and Carbonara, 27 miles wide at its mouth, with secure anchorage. The salt-works here yield about 6,000 tons annually.

CAGLIARI, or CALIARI, PAOLO, commonly known as PAUL VERONESE, a distinguished painter of the Venetian school, born in Verona about 1528, or according to some authorities in 1530, died in 1588. His father, Gabriele Cagliari, a sculptor, instructed him in drawing and modelling; but the pupil seized the opportunity to enter the studio of his uncle, Antonio Badile, a Veronese painter of some eminence, from whom he acquired the elements of that sumptuous style for which he is distinguished. After executing some designs in fresco on the dome of the cathedral at Mantua, for the cardinal Gonzaga, finding his native city overstocked with painters, he repaired to Venice, where he passed the remainder of his life. For a time he employed himself in studying the works of Titian and Tintoretto and soon took his place

among that illustrious trio who made the school of Venice famous long after the art had begun to decline in other parts of Italy. The work which first brought him into notice was the story of Esther, painted on the ceilings of the church of St. Sebastian, under which the artist lies buried, and which, from the number of his works to be found in it, is an appropriate mon-ument of his genius. The subject was calculated to exhibit his lively invention and talent for depicting ornamental accessories, and thence-forth the Venetians were never tired of employing an artist who could minister so acceptably to their luxurious and splendid tastes. A journey to Rome in the suite of the Venetian am-bassador, Grimani, enabled him to study the works of Raphael and the elder masters, whose severe simplicity, however, could not divert him from the style he had already adopted. His history after his return to Venice is a record of great works executed, of which a prodigious number, some of almost colossal dimensions, left his studio. He was amiable, accomplished, and pious, and above all, was distinguished for the generous profusion with which he distributed his paintings among churches and convents. He would seldom take from them more than the price of his canvas and colors, and for his great picture of the marriage in Cana, painted for the refectory of the convent of San Giorgio Maggiore, received, it is said, the insignificant sum of 90 ducats.-No painter ever more frequently violated the proprieties of chronology and costume, or more openly disregarded fact and probability; and none, perhaps, has so magnificently redeemed his errors. In his picture of the family of Darius brought before Alexander, formerly in the Pisani gallery, but recently purchased for the British national gallery at an outlay of £14,000, the men are Venetian soldiers, senators, and citizens, the women are Venetian ladies, the architecture is of the ornate 16th century style, and the costume of the same period. In the "Rape of Europa," now at Vienna, Europa is a noble Venetian dame, sumptuously attired, and her attendants are modern maids of honor. But the celebrated picture of the marriage in Cana, 30 feet by 20, now in the Louvre, is one of the best specimens of his representations of festive meetings, on which his reputation principally rests. There are 3 other festival pictures on a similar scale with the marriage in Cana, and quite as well executed, although not perhaps so well known: Christ entertained by Levi, now in the academy of Venice; the supper in the house of Simon the Pharisee, with Mary Magdalene washing the feet of Christ, now in the Durazzo palace at Genoa; and the supper at Emmaus. Of his more purely religious subjects, the 3 pictures representing the death of St. Sebastian, in the church of that name in Venice, are among the fluest for color and composition he ever painted. His scriptural, mythological and allegorical pictures are almost innumerable, and many excellent specimens are to be found at Milan

and in the Louvre. Of his allegorical s his Venice crowned by fame, on the ceu the Maggior Consiglio hall, is an a specimen.

CAGLIOSTRO, ALESSANDRO, COU ian adventurer, whose real name was ur Balsamo, born June 2, 1743, in Palerma after having swindled and mystified p all nations, and been condemned by the tion at Rome, in the dungeons of Fort Sui, in the duchy of Urbino, in 1795. Go evidence to the honorable poverty of he whom he visited and assisted during his way Palermo. The future Cagliostro made his dem in 1758, when he ran away from the s where he had been placed by his who brought him back and sent him was convent at Cartagiore. Here he insintated himself into the good favor of an apothe who initiated him into some of the mysters his craft, but had to dismiss him on account the vicious propensities which belonged to hi temperament, and which, on his Palermo, degenerated into the By 1769 he had succeedou in was habite. ing for himself all over Sicily the reputation a most dangerous, but at the same Sicily o an exceedingly shrewd fellow. too hot for him, and he made his exit in a teristic manner by obtaining money are confiding goldsmith, under the pretence of ing him to a treasure. With this money he about travelling, in company with a st being of whom nobody ever knew whe came. One of the great means with we Cagliostro played upon the public credulity to surround himself with the most imper ble panoply of mystery, and in this respectravelling companion, whom he baptized by mystic name of Alhotas, was of great service travelling, his policy was to assume a c name and character in every differentry, now appearing as a necromancer, t nobleman, again as a naturalist, or as a physician, while the daily exercise of old : and the concection of new ones imp inexhaustible elasticity to his inventive With Alhotas, he explored Greece, L. Turkey, and Arabia. At Medina he was guest of a distinguished mufti. He be great favorite with the sherif of Mecca smattering of medical science operated lise talisman. His audacity grew with his sa In 1770 he honored the grand master or knights of Malta with a visit, and int himself as the count Alessandro de C a name which he invented for this = occasion, and which he preserved on a of its euphony. His subsequent brilliant was due to this lucky interview, as the mander of the knights of Malta sup with letters of introduction, which, which the adventurer's long-cherished pl for the first time, access to the 1 Fearing, however, that this rewould not be sufficient, after !

ied a beautiful woman, Lorenza travelling with her through she succeeded in making dupes, feminine cunning, in quarters masculine deceptions failed to Her special mission was to caphearts of the people, while he, by r, naturalist, alchemist, freemason, cerer, spiritualist, necromancer, exd hold of the mind and the imagings with an eye to the pocket of

After having done an excellent Italy, he made his appearance in in which country he invented an insured perpetual life and neverity. Women, whose proneness to ad ever been used by him with oitness, became still more attracted by the salutary effects of his won-, the operation of which, he used to anifest upon his own person, as he passed himself off for 100, 150, or old, his wife assisting him in this al deception by speaking of her son captain in the naval service of the lland, and 50 years old, while she herlooked older than 20. After having his tour through Germany, which added considerably to his extensive I bent as he was on making the conedulous people in Russia, instead of it once to St. Petersburg, he first ray to their imagination by the prescareer in Courland, in which cound on his way, especially as he knew of the Russian nobility resided there. hile at Mittau, he gathered around

t ladies of the town, and founded, masonic lodge, in which high-bred rald be admitted as members. irits before the nobility of Mittau, red mystic lectures. The gentle-Courland, and especially Elisa von worshipped at the feet of Cagliostro, his usual tact, left before the enthurictims had reached its climax, and . Petersburg via Warsaw. But here med to disappointment. Catharine at him, and at his female disciples d, and wrote a satirical play on the ich expressed more than she chose left Russia for France, and arrived g in 1780, where he at once went to the bishop of that city by effecting, eyes, some happy cures, or at least good prelate believe that they were ws of this miracle spread over France. received the charlatan with open

1785 he took up his abode in the the rus St. Claude. His laborathronged with amateurs anxious and communion with spirits. Here in old Egyptian masonic order, of the came the grand kophta, whose chief was to impart to the members the

power of making gold, and of keeping death at a distance. The most eminent persons of the French court were his disciples; above all, Cardinal Rohan. Cagliostro became implicated in the diamond necklace scandal, by the evidence of the countess de la Motte, and was taken to the bastile; but as nothing could be proved against him, his liberty was restored to him, but he was expelled from France, and removed to England, where, however, he never made much headway. Nothing would be more fatal to a person of his stamp than an encounter with English common sense. London was not the place for Cagliostro. His exclusion from Germany was caused by Elisa von der Recke, his Mittau disciple, who had become his most decided denouncer in a book entitled Nachricht von des berüchtigten Cagliostro Aufenthalt in Mitau (Berlin, 1787). He betook himself to Switzerland and Sardinia, but his star was declining. On his arrival in Rome in 1787, and on attempting to found a new masonic lodge, he fell into the hands of the inquisition, and was sentenced to death. This judgment was commuted to imprisonment for life, and he died after having had time for 8 years, in his dreary dungeon, to ponder over the amazing facility with which, under certain circumstances, bad men may prey upon their fellows. His wife, who was kept in durance in a convent, died a few years afterward.—In Alexander Dumas' Mémoires d'un médecin, the médecin is Cagliostro in his original character of Dr. Joseph Balsamo. In Casanova's "Memoirs," interesting reference is made to him. Mirabeau, in his letters dated 1786, speaks of Cagliostro, and, in the same breath, of Lavater, who, with all his knowledge of human nature, was one of the most eminent dupes of the Sicilian impostor. Memoirs of his life appeared in French and Italian. Thomas Carlyle, in his "French Revolu-tion," also gives a description of Cagliostro in connection with the necklace affair.

CAGNOLA, Luisi, marquis, an Italian architect, born in Milan in 1762, died Aug. 14, 1838. Among his best works was a grand arch of wood, which he erected at Milan, and which was so greatly admired that it was ordered to be executed in some more durable material. The work was commenced, but the reverses and overthrow of Napoleon had nearly caused its total suspension, when the emperor Francis I. of Austria directed the arch to be completed. Another of his great works is the Porta di Marengo at Milan. He also constructed several churches at Milan and other cities, the finest of which is one in the Corinthian style at Ghisalba. Some of his designs, however, were on so magnificent a scale as to render the execution of them hopeless.

CAGNOLL, ANTONIO, an Italian mathematician, born at Zante in 1743, died in Verona, Aug. 6, 1816. The son of a functionary of the republic of Venice, he spent some time as secretary of legation at Madrid, and subsequently came to Paris, where he devoted himself to the

study of astronomy. Afterward he lived at Verona, where his house became a sort of observatory, until 1797, when the French invasion made him leave the city. He taught astronomy at Modena for a time, and finally returned to Verona. He was the author of a work on astronomy, and of another on trigonometry.

CAHAWBA, a river of Alabama, rises in

Jefferson co., and after passing through a rich coal region, joins the Alabama at Cahawba, in Dallas co. It is navigable by small boats for 100 miles.—Cahawba village, Alabama, is the capital of Dallas co. It is situated on the Alabama river, near the mouth of the Cahawba, contains several churches, printing offices, and a land office, and is the shipping point for the cotton produced in the neighborhood.

CAHEN, SAMUEL, a French Hebraist, born at Metz, Aug. 4, 1796. He received a good education, which he improved by assiduous industry in after life. Intended by his parents for a rabbi, he was, at the age of 14, sent to Mentz to enjoy the instructions of the rabbi of that city. He edited the Archives Israelites, completed a translation of the Bible in 1851, and has published many works intended to illus-

trate the Hebrew language.

CAHORS, the chief town of the department of Lot, France, on the right bank of the river of that name, which forms here a wide bend so as to enclose the town on 3 sides, 60 miles N. of Toulouse. Its narrow and crooked streets, as well as various remains, are evidence of its antiquity. Vestiges of a Roman amphitheatre, aqueduct, and portico, are still to be seen here. Of the 8 bridges on the Lot, one, probably built in the 14th century, is surmounted by 8 towers, to defend the approach to the town. The capto defend the approach to the town. ture of Cahors in 1580 was one of the most brilliant exploits of Henri IV., then king of Navarre; after surprising one of the gates, he had to fight for 5 days and nights in succession before gaining full possession of it. Cahors is the seat of a bishopric, the occupant of which during the middle ages held the title of count, and wore a sword and gauntlets, which he de-posited on the altar when he said mass. The cathedral of Cahors is a fine edifice. Among the public institutions are a theological seminary, a public library, a lyceum, an agricultural society, &c. Clément Marot, the poet, and Murat, king of Naples, were born here. The university, which was founded in the 14th century, but suppressed after the revolution of 1789, had the famous jurist Cujas as one of its professors, and among its pupils was Fénélon, whose statue is placed in front of the college on the Fossé promenade. In the middle ages Cahors was one of the most important emporiums of the money-changers of southern France, who were called Cuorsini. There are some manufactures of cloth and other woollen stuffs; a considerable trade in wines, leaf tobacco, brandies, and truffles is carried on. Pop. in 1856, 13,676.

CAIAPHAS, the high priest of the Jews, to

whom Jesus was sent by Annas, before t he was first brought in his betraval by at The mention of Annas and Cais both holding the office of high priest time of the trial of Jesus, has given some culty to Biblical readers, who know the cording to the Mosaic system, there come but one high priest at a time. But it must b remembered that the Jewish people were a state of subjection to the Roman power. held their religious forms not in the intern of the Mosaic statutes, but arbitrarily at the pleasure of the Roman governor den, at least since the accession of Herod. arbitrary power was exercised by the success Roman governors so freely as to change priest's office from hand to hand almost But as, according to Jewish notions, the bear ness of the high priest was not so readily tramissible from one person to another, he had once held the office of high priest was a after spoken of with the same reverence though he had not been divested of this dignar Hence, when out of regard to his age, and his relationship as father-in-law of Cai Jesus was first brought to Annas, he see in turn, as arrested on a civil criminal cou to Caiaphas, the only high priest who had jurisdiction in the case. Caiaphas was the mediate successor of Simon, the son of C and came to the pontifical honors about a. .. 27 or 28, from which he was deposed after years, and succeeded by Jonathan

CAICOS, or CAYCOS, or THE KETS, 4 of Bahama islands, called Great, Little, and ? Keys, and Providence Island, on a the Atlantic. Some islets and rocks ally included with them under the Caicos. The Great Key is 30 miles long.

CAILLE, NICOLAS LOUIS DE LA. See L CAILLE.

CAILLÉ, René, a French travel Sept. 19, 1799, at Mauzé, died near l 17, 1838. His imagination bec reading the adventures of Rob and his attention turned to the expl of Africa. At the age of 16 he em Senegal. After having passed a Guadeloupe, he returned in 1818 w St. I and joined the caravan which Partar ducted through Gjolof and Foota to see where he joined Major Gray, the leader o English exploring expedition, who was at the latter place. This expedition, I did not prove successful, and Caille, cruiting his strength in France, re 1824 to Senegal, determined to reach a too by his own exertions. Baron R French governor of Senegal, helped small supply of merchandise, and Ca adopted the Arabian dress and religion of the country, joined a dler of goods. After many vicadventures, he set out from K. 19, 1827, and following a south-tion he passed Inanke, Foutah-t

June 18, reached for the first of the Niger, which he crossed. s some time at Kankan and uia, ne travelled about 200 miles eastver territories never visited before, arlimé Aug. 3. Here he was detained or 5 months, until Jan. 9, 1828, when on a new road which had previously wn to geographers, and following a se, he reached Jenne on March 11. arked for Timbuctoo, where he April 11, after one month's sail r. He fell in there with a caravan rocco, and in order not to lose such opportunity for returning, he left auter a short stay of a fortnight, a tedious and painful passage of 2 hrough the desert, he reached Fez, and from thence travelled to Rabath, hangen, and from the latter place he to France. On his arrival at Toulon eceived with the utmost enthusiasm. first European who ever returned ctoo, and who had achieved sucexpeditions supported by govern-I resulted in failure. A special prize francs was awarded to him by the al society, with the annual prize s for the most important discov-6 order of the legion of honor was lt n him by the king, and he became, ume, the recipient of a salary in conwith an office, to which he was apn the Senegal service. Furthermore, from the fund set apart for eminent and scientific men was decreed to him er of the interior, and his Journal wyo à Timbouktou et Jenné, dans centrale, etc., with geographical data Jomard, was published at the expense ament, and appeared at the beginning n 8 vols. 8vo. ET, GUILLAUME, called JACQUES BONa sobriquet given by the nobles to ints who meekly submitted to their ill-. the leader of the French peasants, as they were called, who in 1858 the nobility of northern France, llo near Beauvais. From Beau-Clermont, the insurrection spread over boring districts; nearly 100,000 peas-in arms, and in the course of their ittacks, to which they were chiefly uy their starving condition and by n practised upon them by the nobles, yed more than 160 fortresses in u the dioceses of Laon and Soissons, s of the family of Montmorency. ules of all parties had combined to of Navarre, Charles the Bad, with ing into negotiations. The king, raced him to die on the gallows. Nantes, March 10, 1787, visited in his colland, Italy, Greece, and Turkey.

On arriving in 1815 in Egypt, he was sent by the pashs on an exploring tour along the shores of the Nile, and the neighboring desert. From that time, M. Calliaud devoted himself to the exploration of Egypt, and the results of his investigations were published in 1821, in the description of his travels to the desert of Thebes: in 1826 and 1827, of his journey to Merce; and in 1881, in a work on the artistic, industrial, and domestic life of the ancient Egyptians, Nubians, and Ethiopians, with details on the aspects of their modern civilization. Cailliand's most interesting discoveries consisted in the famous emerald mines on Mount Zabarah, and in the ruins of a small town, probably formerly the place of abode of the miners, with Graco-Egyptian monuments and very ancient inscriptions. He also discovered one of the ancient roads of traffic which connected India with Egypt. On his return to Paris, his collection of antiquities and his other trophies were purchased by the government, and M. Jomard was charged with the publication of the work on Thebes, and subsequently with that on Syouah.

CAILLOMA, or CAYLLOMA, a town of Peru, South America. It is the capital of a province of the same name, in the department of Arequipa. Pop. of the province in 1850, 23,443.

CAILLOU LAKE lies in Terre Bonne parish, Louisiana. It is 10 miles long, and connected with Caillou Bayou, and with the gulf of Mexico, 2 miles distant.

of Mexico, 2 miles distant.

CAIMACAN (Turk. Kaimakam), an oriental title, applied to the grand seignior, the grand vizier, the governor of Constantinople, and the commandants of the Turkish provinces; and, among the Tartars of the Orimea, to the recent in the absence of the khan.

regent in the absence of the khan.

CAIN, eldest son of Adam and Eve, became a cultivator of the soil, killed his brother Abel, who was a keeper of flocks, and was condemned by God to be a fugitive and vagabond on the earth. After many wanderings, he retired to the land of Nod, on the east of Eden, where he built a city, which he called Enoch, from the name of his son.

CAINITES, a sect of the 2d century, who paid homage to all the reprobate characters mentioned in sacred history. Cain, from whom they took their name, and Judas, the traitor of whom they had a forged gospel, were objects of their particular veneration. They were a branch of the Gnostics, and admitted great numbers and various ranks of genii and virtues.

CA IRA, a revolutionary song in France during the reign of terror. Originally the music was adapted to a favorite air of Marie Antoinette, who was doomed to hear it again on her way to the guillotine. For 4 years the bloody air accompanied the victims of the first revolution to the guillotine. It was only totally abolished when Napoleon, on entering upon the consulate, prohibited all songs which savored of the reign of terror. Yet, like the Marseillaise, the Carmagnole, and the Chant du départ, the Caira

has become naturalized among the French national songs, and even during the outbreaks in France after the revolution of 1848, the ominous song was occasionally heard again in the streets of Paris

CAIRD, James, a Scotch agriculturist, born at Strangaer in 1816. He was educated in Edinburgh, became tenant-farmer on the estate of the earl of Galloway, in Baldoon, was brought into public notice as agricultural commissioner for the "Times" newspaper, and has published several works on agriculture, the most important of which are "High Farming" and "English Agriculture." In 1857 he was elected to parliament for the borough of Dartmouth, as a supporter of Lord Palmerston.

CAIRD, John, a clergyman of the church of Scotland, norn at Greenock in 1823. He was educated at the university of Glasgow, licensed to preach in 1844, and became soon after minister of a church in Edinburgh. He exchanged this position in 1850 for a rural pastorate in Errol. In the church of Crathy, Oct. 4, 1855, he preached in presence of the queen and Prince Albert, and the sermon, published by royal command, and entitled "Religion in Common Life," attracted much attention, and was republished and widely read in America and on the continent of Europe. Mr. Caird is one of the most eloquent preachers in Great Britain, and his manner is described as a gradual transition from simple earnestness to the most violent yet skilful gesticulation and vociferation. He is now one of the ministers of Glasgow, and published in 1858 a volume of sermons.

CAIRIRIS, or Jabitaca, a mountain range of Brazil, in the province of Pernambuco. It is 800 mile long, and forms the northern boundary of the basin of the Rio San Francisco.

CAIRN (Welsh, carne), the name of ancient heaps of stones in a conical form, which were erected in Britain as sepulchral monuments in honor of great men. The stone chests containing the urns and ashes of the deceased rest below, and as many as 17 have been discovered under one cairn. The Scottish Celts have a saying, "I will add a stone to your cairn," which means, I will bless and honor your memory. In many parts of Scotland and Ireland, a heap of stones in the form of a cairn is gradually raised on the spot where a murder has been committed. The country-people think it unlucky to pass by without throwing a stone on the heap.

CAIRNGORM, a mountain of Scotland, in the counties of Banff and Moray. It is 4,095 feet above the sea, and during most of the year its summit is covered with snow. Among other minerals, it produces the topazes known as "Cairngorm stones."

CAIRO, a town of Alexander co., Illinois, built on a low point of land, at the junction of the Ohio and Mississippi rivers. It was founded with the expectation that it would shortly become a great commercial city for the south-

ern part of the state, and large sums of were expended on it in improvements b linois central railroad company, who great part of the land, and had here ti shops and the southern terminus of To protect it from inundation. leves erected, and a new embanki . 80 fe 10 feet high, and designed ... city, was commenced about 1 mer of 1858, however, a desuru re fi above this work, and destroyed: st tire town. In 1857 Cairo had 5 foundery, 2 banking-houses, 2 insurant cies, 3 newspaper offices, 1 brick-yard, 2 depots, 2 telegraph offices, 8 hotels, 5 c. and about 470 houses.

CAIRO (anc. Corium), a town of Pie in the division of Genoa, on the Borr miles N. W. of Savona, and 5 miles S. o Pop. 8,492. The French defeated the

near here in 1794.

CAIRO, the capital of Egypt, the mor lous city of Africa, and, after Constan of the whole Turkish empire, is situate a mile from the bank of the Nile, and above the apex of the delta of tha lat. 30° 2′ N., long. 81° 16′ E. It lies on the level plain of the Nile val the south-eastern part, including the is built upon a spur of the Mokkatan tains. Cairo occupies a site of about in circumference, and presents from an enchanting spectacle, but within pearance is far from being attractive. are about 30,000 houses in Cairo. the poor are built of mud, or of sa bricks, and are only one story in height of the richer class are built of brick, we of a soft stone quarried in the neighbor katam mountains, and are 2, and frequent stories high. The streets are in a w condition, unpaved and dusty. The mode of conveyance is by donkeys, being rarely employed, and the use of c being impossible, except in a very few The principal public place, called th keejah, is planted with shrubs and t crossed by walks. There are about which are more cleanly than in other cities. There are also many caravans iuns, and numerous large and neat store and the extensive bazaars, though d that magnificence which they exhi beginning of the 15th century, stin p goodly array of the merchandise of t There are many public fountains, c rately ornamented with arabesque w great number of coffee-houses, a are highly interesting during the adan, when the performances of to or Turkish Punch, take place. But the Cairo is its mosques, of which there to be as many as 400, s of t specimens of Arabian arcuse celebrated is the mosque of a which has a magnificent

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bellished with honeycomb tracery. wu to another mosque is a famous hosfor insane and other helpless persons, are gratuitously supported in great num-The mosque El Azhar is celebrated not beauty of its architecture, but for a college, to which many hundreds www.us resort from all parts of the Mohamworld, and which is the great centre of saudy of Arabian literature. The mosque of on, founded A. D. 879, is interesting, as ting specimens of the pointed arch, which arward introduced into Europe, and is or the distinguishing characteristics of the style of architecture. North-east of the just outside of the walls, are a number of my beautiful mosques, built over the tombs of Circa and Borgite Mamelukes. part of the town is the citadel, a un a hill, 250 feet above the rest of the containing the palace of the viceroy, the manufactory of arms, various govern-ss, barracks, and other buildings, and ru mosque, begun by Mehemet Ali, and unished. Within the citadel is a deep through the rock, which, though solid, i, to the depth of 280 feet. It conn 2 portions, the upper part being an square, 24 feet by 18, and 155 feet and the lower having a similar shape, by 9, and 125 feet deep. The water d from the lower well into a basin at outom of the upper, whence it is conveyed , me citadel above, and is commonly desig-Joseph's well, after Saladin, who is said constructed it, and who was also called The citadel, which affords a splendid n' the city, of the Nile, and of the pyra-commands the city, but is itself com-l by a neighboring ridge of the Mokuntains, and is, therefore, of no ast an attack from without.-The ...ces who inhabit Cairo live in disers, of which there are many, as the quarter, the Frank quarter, the Coptice, &c. The streets leading to each quarr, dec. closed at night by gates, of which there

. Cairo is divided, for purposes of police ion, into 8 wards, each of which has a se presiding officer, while the whole are r the superintendence of one common Each trade, or calling, has also its r head, who is in some measure responfor the conduct of the members of his Justice is administered in a summary r; and breaches of the public peace are be less common than in some European In the Frank quarter is a theatre, supu by subscription among the Europeans, being composed of dilettanti, with the ou of the manager, who is an actor by ion. In the same quarter are the liof the I ptian society, and the Egyptian cion. Ibrahim Pasha's library Music works of the most noted Arabic authors. The same prince be-VOL. IV.-14

gan a collection of Egyptian antiquities, and there is also a similar collection belonging to Mehemet Ali. The medical academy, established in 1827 by Mehemet Ali in the hospital of Abouzabel, was afterward transferred to Cairo. but, being unfavorably affected by the reverses of 1840, did not give many signs of vitality until 1856, when it was reestablished on a larger and improved scale in a charming locality on the shores of the Nile, within a short dis-The academy, which was tance of Cairo. inaugurated on Sept. 10 of that year, is intended to contain different hospitals, botanical gardens, a library, cabinet, and museum of chemistry and natural history, and to teach all the branches of the medical and natural sciences, and is under the charge of Dr. Clot-Bey. An academy, chiefly designed for the military profession, but embracing the general branches of European education, was opened in 1855, by Solyman Pasha, received the sanction of the government in 1856, will admit 200 pupils, and is confided to the direction of an accomplished Egyptian poet and scholar Rifaah Bey. Among the charitable institutions of Cairo must be mentioned the private school for young orphan girls, kept by the sisters of the "Good Shepherd." There are about 60 girls in the institution, all natives of Egypt, but comprising Christians, Mussulmans, and Jews, without distinction of creed. A free pharmacy has also been opened by a company of sisters of charity, where the poor sick are supplied with medicine. In 1857 an annual grant of breadstuffs was conferred by the viceroy upon the former, and an annual contribution of \$1,000 upon the latter institution.—Cairo has 2 suburbs, Boolak, and Musrel-Astik, old Musr, or capital, to distinguish it from Cairo, which is now the musr. This latter suburb is also called Fostat, and by Europeans commonly, but improperly, Old Cairo. Both these suburbs are on the bank of the Nile, and serve as ports to the city. Fostat contains some ancient buildings, called the "granary of Joseph," still used for the storage of grain. On the island of Rodah, near the town, is the celebrated Nilometer, a rude, graduated column, many hundred years old for indicating the height of the Nile during the annual inundation. From Fostat a canal of irrigation runs through Cairo, and is continued some miles beyond. It is supposed by some to form part of an ancient canal connecting the Nile with the Red sea. From this place also an aqueduct, nearly 2 miles long and supported by about 300 arches, built by the Arabs, conveys water to the citadel—that procured from the well above mentioned being brackish, and not used for drinking. Cairo is surrounded by walls, which are pierced by several gates, some of them of considerable beauty. In its environs are immense piles of rubbish, forming small hills. The climate is warm, but considered healthy, though, owing to the filthy condition of the city, and its inhabitants, the mortality is large.

Ophthalmia is very prevalent, and the plague occasionally makes terrible ravages among the The manufactures embrace silk population. and cotton fabrics, gunpowder, glass lamps, sugar, sal aminoniac, leather, weapons, and iron ware. Cairo is a central station of the overland route to India, and its commerce is considerable. The slave market is no longer held in the city. The black slaves are kept outside of the town, and the Circassian, Greek, Georgian, and other slaves, are kept in the private houses of the dealers. One of the most lucrative trades of Cairo is that in precious stones and jewelry. The remarkable resources of Cairo make it a favorite resort of Italian, Greek, French, Armenian, and other commercial adventurers, and of intriguers of all nations, who are constantly found hovering round the court of the viceroy, busy in scheming and in endeavoring to secure some profitable job. A railroad connects it with Alexandria, and caravans annually arrive from Darfoor, Sennaar, and Moorzook. Every year an immense caravan assembles in the neighborhood of Cairo to make the pilgrimage to Mecca, and as the pilgrims generally carry some goods with them for traffic, their departure and return is to Cairo a considerable source of wealth. Mehemet Ali established a number of schools after the European fashion, but his plan met with much opposition, and had but indifferent success. The Greeks have 2 churches in Cairo, the Armenians 1, the Copts about 12, and the Jews some 40 synagogues.—The city is said to have been founded about A. D. 970, by Moez, an Arabian caliph from western Africa, who gave it the name of El Kahirch, or the victorious, in commemoration of his conquest of This prince made Fostat his capital, Egypt. but in the 12th century the seat of government was removed to Cairo, which henceforth became the *musr* or capital, while Fostat was called the old capital, Musr-el-Aatik. At the beginning of the 15th century Cairo was one of the most flourishing cities in the world, the cen tre of commerce between Europe and India, and the entrepot of the trade of Africa. In 1754 it suffered severely from an earthquake; in 1798 it was taken by the French, who were however expelled by the English in 1801, and the city has since been a dependency of Turkey, under the rule of the viceroy of Egypt. The population has usually been greatly overestimated, and probably does not exceed 200,-000, of which there are over 120,000 Mohammedans, 60,000 Copts, and many Jews, Franks, Greeks, and Armenians.

CAISSON, a French contrivance formerly much used in obtaining foundations for piers. Originally it was a roughly made strong basket, filled with stones, and sunk to the bottom. Afterward strong boxes of plank, well secured with iron bands, were used for this purpose. In them the stones were regularly laid in masonry, and the whole sunk together to the bottom. The foundations of Westminster and Blackfriar's

bridges were thus prepared; and the I gineers, with whom this was a favorit introduced the same upon a g nti the construction of the break. ar bourg. (See Berkwater.) Our rivers it is sometimes used by build closure of logs on the ice in the winter, this with stones, till the whole break and sinks to the bottom.—The French ous applications for the word in the art, all of which depend upon its siq of box or chest.—In architecture, it is panel in a flat or vaulted ceiling, or ir of a cornice.

CAISTOR, or Castor, a market parish of Lincolnshire, England. I ancient church which stands on the Thongceaster, a Roman station said been rebuilt by Hengist on as much ox-hide cut into thongs would congrammar-school here was founded in manufacture of chairs of elm and ashicarried on. Pop. in 1851, 2,407.

CAITHNESS, the most northern Scotland, containing an area of 618 sq 88,709. Dunnet Head, the most north of Great Britain, is in Caithness. To the county is flat. It is generally and but a small part is under cultivat climate is wet and severe, not from t cold, but from storms and general in The inhabitants are chiefly engaged i eries alternated with agricultural pursu are much encouraged by the chief la The general state of the county is v tive, population being scanty and the communication limited. Gaelic is spoken. This remote district was for chief commercial outlet of Scotland, fr an active trade was carried on with Europe. The Caithness weights and were from this circumstance made th standard by David II. The harbor the principal town, is commodious, an greatly improved by the expenditure siderable sum of money. The county title of earl to the Sinclair family, a one member to the house of common

CAIUS. I. A Roman general, son Agrippa and Julia, the daughter of Cassar, who lived in the first century era. He was adopted by August under Tiberius in Germany, and w proconsul against the Arabians, Ar Parthians. He reduced Armenia a Tigranes. He was treacherously w private interview with an enemy, and and much regretted under the effec Christian theologian and bishop of the tury. His origin is uncertain, but he ciple of St. Irenseus. He had a confer Procus, the leader of the Montanists, was appointed a bishop with the compressing to the heathen in foreign pregarded the cpistle of St. Paul to the as apocryphal, and was the first tenture.

Cerinthus and the Millenarians. His to one aimed at those who asserted unrist was only a man. III. Carus, pof Rome, died April 21, 296. He was of Dalmatia, and nephew of the emiocletian. He succeeded Eutychianus 283. At the time of the first persecutive Christians by Diocletian, he was find safety in an obscure retreat.

1. John, the founder of Caius college, versity, born at Norwich, Oct. 6, u 11 Cambridge, July 29, 1573. His Kaye or Key, which he Latinized s. He took his degrees at Gonville hall, ge, and was chosen fellow of his college. Cambridge he distinguished himself by ranslations from the classics. He spent e in travelling on the continent, studied at Padua, under Montanus and Ved took his doctor's degree at Bologna In 1542 he lectured at Padua on the ext of Aristotle, and in the following de a tour through Italy, visiting the libraries, in order to compare the Galen and Celsus. He returned to his ountry in 1544, and practised, first at ge, then at Shrewsbury, and afterward ich. He was appointed by Henry VIII. m anatomy to the company of surgeons, In 1547 he became fellow of the colphysicians, and was appointed court 1 to the young king Edward VI., which

he retained under Queens Mary ech. In the reign of the latter, an ontroversy arose between the surd physicians of London, as to the right ormer to administer internal remedies ciatica. Dr. Caius argued the negative on behalf of the physicians, that, alhe surgeons' case was supported by the f London and the master of the rolls, n was against the right of the suruntinue the practice of administering s. Dr. Caius was elected president of ge of physicians for 7 years in succes-here is extant a book of the college ann 1555 to 1572 written by him in Latin, the earliest account we have of the ions of that college. He was dismissed royal service in 1568 on suspicion of the Catholic party. He obtained perto endow and raise Gonville hall into a, which still bears his name, and acceptastership thereof. The last days of his passed in the seclusion of his college. ks are numerous, on various subjects; them have been reprinted in modern

INO, a village of Tuscany, in the Val
It has a handsome villa, belonging
duke, and an iron suspension bridge
over. The celebrated Bianca Capello
in 1587.

L'UT OIL, a volatile oil, distilled from es of a small myrtaceous tree or shrub, e in the island of Booro in the Malay archipelago, a species of melaleuca, named the cajeputi, though possibly it is the M. minor of De Candolle. The name is a corruption of the Malay designation of the oil; minyak kayu-putih, "white wood oil;" the latter words being written by the Dutch, cajorouti; and hence the English corruption, cajeput. The whiteness of the bark of the tree, is the cause of the name given to the oil. It is in high repute, not only as a liniment, but as an internal remedy among the different peoples of the archipelago, especially the Javanese. A few Chinese and Javanese traders of Batavia, are the sole factors of the trade in cajeput. The leaves are gathered on a dry hot day, and being steeped in water they commence fermenting, and are then distilled. The quantity of oil obtained is small, and it being extensively used by the Malays, the price it commands is very high. It is imported in glass bottles, and as received it is commonly of a fine green color, which has been attributed to the copper vessels, in which it was prepared. Copper has indeed been detected in some samples of it; but not always being found, the color is supposed by some to be the natural color of the oil, derived from the greenish principle or chlorophyll of the leaves. Whatever may be the cause, the color disappears by rectifying the oil. This is then a very thin fluid, transparent, of a warm, pungent taste and odor like that of camphor and turpentine mixed. It is soluble in alcohol, but only partially so in water; burns readily without residue, and is of specific gravity 0.914 to 0.927. It is often adulterated with oil of turpentine and camphor, or oil of rosemary. It is used in medicine for its highly stimulant quality, either as an external application mixed with the same quantity of olive oil for gouty and rheumatic pains, or taken internally in cases of chronic rheumatism, and spasmodic affections of the bowels. Some have highly recommended its use in cholera. It is introduced into the cavi-

ties of aching teeth, to relieve the pain.

CAJETAN, or CAJETANUS (TOMMASO DE VIO), an Italian cardinal, born July 25, 1470, at Gaeta, died in Rome, Aug. 9, 1534. He entered the order of Dominican friars, graduated as a doctor, and was elected general of his order in 1508. When Pope Julius II. was summoned to appear before the council of cardinals assembled at Pisa and afterward at Milan, in the interest of King Louis XII. of France, Cajetan undertook his defence, asserting that to the pope alone belonged the power of convening a council. He was appointed cardinal in 1517 by Leo X., and sent as a legate in Germany to bring the emperor Maximilian and the king of Denmark into the league formed against the Turks. His efforts to make Luther recant his doctrines proved in vain. In 1519 he was present, as Roman legate, at the assembly of the electors of the empire, and sided with the partisans of Don Carlos of Spain, who was elected emperor under the name of Charles V. Then he returned to Rome, but was soon ordered by Adrian

VI. to Hungary, which was invaded by the Turks. In 1524 he was recalled to Rome by Clement VII. On the capture of Rome in 1527, being taken prisoner by the imperial troops, under the command of the constable of Bourbon, he had to pay 5,000 crowns as a ransom for his liberty, which sum he was obliged to

borrow from his friends.

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CALABAR, New, the name of a river and town in Africa, lying about 80 miles west of Old Calabar. The river is one of the mouths of the Niger, at 20 miles from the sea is 6 fathoms deep, and enters the bight of Biafra by the same estuary as the Bonny. The town stands on an island in the river about 25 miles from the sea, and contains upward of 800 houses. Its trade consists in slaves, ivory, and palm oil, for which European goods are received in exchange.

CALABAR, Old, a country of Guinea in West Africa, on the Old Calabar frith, in the bight of Biafra, at about lat. 5° N. and long. 8° E. It is traversed by the Old Calabar and Cross rivers, and has about 70,000 inhabitants, two-thirds of whom are slaves. Its principal towns are Duke Town and Creek Town, the former with a population of 7,000, the latter of 6,000. The chiefs and freemen are engaged in the palm-oil trade with British merchants. They bring the oil from the interior, and receive in return for it English wares and manufactures. Several missions have been established in the country, which have met with encouraging SUCCESS.

CALABASH TREE, (crescentia cujete), is a native of the West Indies and the continent of America. It grows to about the height and bulk of an apple tree, with crooked horizontal branches. It has wedge-shaped leaves, pale white flowers on the trunk and branches, and a roundish fruit, from a few inches to a foot in diameter. The calabash fruit contains a pale yellow, juicy pulp, of an unpleasant taste, which is deemed a valuable remedy in several disorders, both internal and external. The uses to which the fruit of the calabash tree is applied are very numerous. It is covered with a green-ish-yellow skin, enclosing a thin, hard, and almost woody shell, which is employed in lieu of various kinds of domestic utensils, such as bowls, cups, and goblets of every description. These shells are so hard and close-grained that, when filled with any fluid, they may sometimes be put on the fire and used as kettles without injury. They are also cut and carved, variously stained, and polished, as ornamental vessels.

CALABOZO, a town in the province of Caracas, Venezuela. It was formerly a mere Indian village, but has now about 5,000 inhabitants, most of whom own large herds of cattle.

CALABRIA, the southern part of the kingdom of Naples and of the Italian peninsula. lying between the parallels of 22° 48′ and 32° N. lat., and having an area of over 6,000 sq. m.; total pop. in 1856, 1,187,782, comprised in 8 provinces: Calabria Citra, 456,018; Calabria Ultra II., 898,584; Cala The Apennines reach thre me ap of Calabria, forming a 10 II the centre, with brev www towaru u either directi reen these branches are nu levs, and shore extensive p the mulberry, and the ouve, fig trees grow luxuriantly. Some on a tains produce the manna ash, from an incision into its bark manna is a gathered. Many of the northern used for pasturage; and the principusome of the districts is invested in sheep. Silk has been for several c principal article of manufacture; creased tax which has been set diminished its amount of late. (and red wines are noted for weir taste. The natives of Calabria are a enduring race of men; of a passion tion, and much addicted to pla Numerous bands of gypsies, and a distant and muscular race of Arnaouts, also sul country. Calabria is subject both to ea and inundations. In the middle of the tury Calabria reverted to Roger II Naples and Sicily, and has since rem der the sway of that monarchy, the tive heir to the Nespolitan crown b title of duke of Calabria.

CALAHORRA, a town of Spain, is tile, in the province of Logrono, on Cidacos near its junction with the E old and decayed in appearance, and i are generally mean; its cathedral, in Gothic style, and an episcopal palace, worthy of note. Calahorra is the an gurris, and is memorable as the of Quintilian, and for its desperate ! cessful resistance to a siege in the y The remains of Roman towers are duct may still be traced. The celebra baths of Amedillo are within a shor of Calahorra. Pop. in 1852, 5,990.

CALAIS, a city of Washington at the head of the tide on the St. miles from the sea, at the easternmost of the state, and opposite the English t Stephen, the river St. Croix forming 1 boundary between the United State British possessions on our north-e lat. 45° N., long. 67° W.; pop. in It was incorporated under a town go June, 1809, and erected into a city is a place of large trade in lumber. wm ufactured from the extensive f upper waters of the St. Croix. is also a growing branch of its rises here from 20 to 28 feet. to the porus of Great Britain, une islands, and to the coastwise ports or going south as far as the Potomac vals of vessels in 1857 numbered i departures 522. The exports of saw from the river in that year were

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hich about 80,000,000 went to foreign a other exports were 68,000,000 laths, shingles, 2,000,000 pickets, 90,000 8,000 sugar boxes, 4,000 hackmatac and 1,400 cords of wood and bark. mery for sawing lumber is propelled y by water power, and consists of 68 10 lath and shingle machines. Thirtymills contain "gangs" of saws, each sting of 16 movable upright saws in ame, 26 mills run single saws, and 2 r saws, the whole having a capacity of equal to 700,000 superficial feet of ber per day. The water power is of a paracter, the large lakes at the head of cting as reservoirs during the dry seaeventing sudden rises by freshets; the rise of the river from the lowest point on being less than 10 feet. A railroad e lumber from the mills to the wharves, is 20 miles up the valley of the river. imports annually about 100,000 bush. 100 bbls. of flour, and 2,000 bbls. of wns 8,000 tons of shipping in coasting i steamers. It has a steam flour mill, nt for grinding and calcining plaswhich turns out about 15,000 casks , an iron foundery, a dry dock, several and a number of small factories for of wood manufacture. Two steamn the river, and a semi-weekly line s runs in connection, to St John on the Portland and Boston on the west. stage runs northerly to the interior connecting with the upper valley

rans in connection, to St John on the Portland and Boston on the west. A stage runs northerly to the interior connecting with the upper valley John river in the province of New , and two daily stages run to the west. ontains 8 churches, 16 school houses, hool, and 1 academy. Education is. The average annual attendance at \$700. The amount of money raised by taxation in 1858 was \$16,000, or cent. upon the full market value of ty assessed. It was for schools \$3,000, i highways \$2,000, poor \$2,000, city \$2,500, interest, deficiencies, &c., \$3, and county taxes \$3,000. Within the, at the mouth of the river, lies St. Big island, on which Pierre du Gast, Monts, wintered in 1604-'5, on the which he founded Port Royal in Nova first permanent French settlement in

S. a seaport town of France, departde Calais, on the straits of Dover, 29
L. E. of Boulogne, 225 miles N. N. W.
It had once some pretension to anregarded by the learned as the
ms, whence Cessar sailed for England;
been proved beyond doubt that this
nged to the little village of Wissant.
ot mentioned before the 11th century,
997 Baldwin IV., count of Flanders,
the port, which was protected by the
f 2 towers. In 1224, Philip of France,
Burgundy, built a wall around the

town and a castle at its entrance near the seashore. In 1847, Calais, after a siege which lasted no less than 11 months, was obliged to surrender to Edward III., and was saved from entire destruction by the heroic devotion of Eustace de St. Pierre and his 5 companions. The citizens were compelled to leave the town, and an English colony was established here. After being more than 200 years an English city, Calais was, in Jan. 1558, retaken by the celebrated Francis, duke of Guise. The Spaniards took possession of it in 1596, but had to surrender it on the peace of Vervins, 1598. It was vainly besieged by the Spanish army in 1657, and twice bombarded by the English during the reign of Louis XIV. In 1808, during the preparations at the camp of Boulogne, an English fleet attempted, but failed, to surprise it. The same year it was visited by Napoleon. On April 24, 1814, Louis XVIII. landed here, which event has been commemorated by the erection of a pillar. The town is now a fortress of the 2d class, surrounded by newly improved walls and bastions, and protected by a strong citadel commanding also the port. It is neatly built, with regularly laid-out streets and clean houses, so much so that, according to a traveller, it looks like the picture of a city. The ramparts, which are planted with trees, form an agreeable promenade. The gate on the road to Paris, constructed in 1635, is a fine piece of architecture. Very few monuments deserve to be mentioned, with perhaps the exception of the parish church, built by the English, which is a fine building with a lofty spire. Manufactures are unimportant, except those of tulle (bobbinet), which employ no less than 600 looms, each loom requiring the attendance of a number of workmen, beside 8,600 women and children for the preliminary preparations. This branch, as well as others, would have been still more prosperous, if not prevented by the war regulations governing the country in the neighborhood of a fortress. The principal trade of Calais consists in carriages, French wines, brandies, and eggs, exported to Great Britain, for which are received in return butter and leather from Ireland. Vessels are fitted out for the mackerel, herring, and cod fisheries. The coasting is more important than the foreign trade. At present, the principal dependence of Calais is on the resort of travellers to and from England, which is somewhat diminished by the competition of Boulogne. It has daily communication by steamer with several English ports, and has had telegraphic communication by a cable across the channel since 1851. The port is of easy access, and can admit vessels of 400 or 500 tons, but is laid bare at ebb tide. The entrances in 1858 consisted of 1,504 foreign vessels, representing 178,375 tons; of 53 coasting vessels, tonnage, 8,197; and the clearances of 1,806 foreign vessels, tonnage 140,866; and of 44 in the coasting trade, tonnage 3,079. In 1857, the entrances and clearances of foreign vessels were collectively 2,808, tonnage 424,000. The town communicates by the As with the St. Quentin ca-

nal, and by a branch with the northern railroad, both which facilities have lately enhanced its inland trade. Daniel O'Connell was educated in the Jesuit college here for the priesthood. Pigault-Lebrun was born here, and Lady Hamilton, Nelson's Emma, died here in 1815. Pop. 11,000, comprising about 400 English.
CALAMANCO, a woollen stuff of a fine

gloss, and chequered in the warp, the checks appearing on the right side. It is manufactured

in England, and extensively in the Netherlands.
CALAMANDER WOOD, the hardest and
most beautiful species of all the fancy woods imported from Ceylon. It is so hard that edgetools cannot work it, and it has to be shaped by rasps and files. It exhibits great richness and variety of color, very different shades being closely intermixed, the prevailing one being a fine chocolate. It is so expensive that it is

imported only occasionally.
CALAMBUCO, a valuable timber tree, found alone in the northern provinces of the island of Luzon. For shipbuilding it is esteemed in the Philippines as superior to the live oak, or the teak. It resembles the latter when dressed, has the same dark unctuous appearance, and like it is never attacked by the omnivorous and terribly destructive white ant of the Malay archipelago. Several colonial ships built of this timber, 50 years ago, are reported to be still seaworthy. The experiments made at the arsonal of Manila upon calambuco wood exhibit great strength and elasticity. Beside ships, a great variety of agricultural, mechanical, and warlike instruments are made from this timber. This name is also given in the Malay archipelago, to a tree which produces an odoriferous wood the agila, or eagle wood, and aloes wood of commerce. It is found chiefly in Siam, the Malay peninsula, and in the northern portion of Sumatra; but is also found in the Indian peninsula, where it is called agharu; and hence, it is sometimes named by the Malays, kayugharu. The perfumed wood is supposed to be a diseased tumor in the tree, arising from the wound of a timber worm. The thickened, resinous sap formed in these tumors, is used as There is an incense in all eastern countries. much discrepancy in the statements of East Indian naturalists, relative to the tree yielding the genuine agila; and this perfume and aloes wood have been supposed to be the products of different trees; but it is the heart of the kayukalambak, or calambuco tree, which produces the aloes wood, and in the bark the agila is formed. The agila does not yield its exciting aroma until it is burned; but the calambuco or aloes diffuses its fragrance when rubbed in the hands.

CALAME, ALEXANDRE, a living Swiss landscape painter, of Neufchâtel, who settled at an early age in Geneva, where he became the pupil of Diday, and whither he returned after having spent some time at Rome. He has produced pictures of the most prominent scenes of the Alps, and in his power to render their picturesque majesty, he is hardly surpassed

living painter.

CALAMIANES, the name of a gr anda, and province of the Philippine a ago. The group consists of the large Busuagan, Calamian, Linacapan, Coron ran, Iloe, Lutaya, Carandaga, and abunimportant islands and islets. This gr the northern portion of the great island lawan, called Paragua, constitute the p which is the poorest and least populous c divisions constituting the Spanish Phi Area about 2,800 sq. m.; pop. 17,820. habitants of the group and of the Span tion of Palawan, are of the Bisaya race; a been converted to Christianity by the missionaries. Since the conversion, the ment in the condition of the Pa cially, has been most notable; before in rence they lived in naked savagery, southern Palawans, who recognize the d of the piratical sultan of Sooloo; at the day the Paraguans live in communities dwellings of their own construction; th ufacture their own clothing, and their tural and mechanical implements; the ratans, bees' wax, and birds' nests; and ute a substantial amount of revenue support of the beneficent government has done incomparably more to adva welfare of its Indian subjects, than European government in the eastern h The Calamianes group does not parta volcanic character of Luzon, and oth islands of the archipelago; it is much l tive, subject to a hot, humid, and inatmosphere, and the agricultural labor inhabitants are greatly thwarted by structive voracity of great numbers of w porcupines, deer, squirrels, parrots, as animals and birds. This superal wild animal life prevails mostly in un Busuagan and Calamian. The inhabit oftentimes disposed to return to their sylvan life, when subsistence was so cured by the chase; but their phine Spanish pastors encourage and aid ther construction of better defences for the p tions of the fruits of their agricultural and impress upon them the advantages tematic labor, and the comforts of civ which spring from it.

CALAMINE. This name is given to ent ores of zinc, one of which is the and the other the carbonate. The mo mon ore worked for zinc is the anhydr bonate. It occurs crystallized in rho forms, of vitreous lustre, and a little of white, yellowish gray, or brown cok transparent or opaque, in forms botryol lactitic, and reniform, and in crystalline tations. Its hardness is 5, its specific to 4.45. It contains oxide of zinc 64.8i, bonic acid 85.19. It dissolves with effer in acids, and is also soluble in ammonia m ly heated. It occurs in thick beds and i

calcareous rocks of the secondarphic formations. It is rarely with oxide of iron and the sili-It is extensively worked for the of zinc paint at Vieille Montagne, age and Aix la Chapelle. In this is found associated with hematite iron also with the sulphuret of lead or t is worked near Bethlehem, Lehigh , and in the vicinity of Lancaster. It din Dana's "Mineralogy" by the name nite. The hydrous silicate of zinc, also tro-calamine, often accompanies the carbonate, and it is usually the two mixed which are designated by the alamine. It occurs in forms similar f the carbonate, and in crystals dea rhomboidal prism. Its hardness vnen crystallized, 5; its specific grav-16 to 3.49. It dissolves by the aid of phuric or muriatic acid, and gelatinizes . It becomes strongly electric by heat, property it owes its name. Its comsilica 25.1, oxide of zinc 67.4, and -In pharmacy, the term calamine is ly to the native carbonate, which has sn employed in an impure state. i. too, of a spurious quality, consisty of sulphate of baryta and carbo-, with mere traces of zinc. It is

lamine: one, which they call brass casold to the makers of brass; and the yta calamine, which is the amorphous of baryta, is sold to the druggists e carbonate of zinc. In medical calamine is heated to redness, and an impalpable powder. By this calis converted into oxide of zinc, mixes impurities of the ore. In this state prepared calamine. It is used as an alication only, sometimes in the form more commonly it is dusted upon

more commonly it is dusted upon a excoriated parts, upon which it mild astringent and exsiceant. In ee of the impurities of this article, of zinc, obtained by precipitation, is or it in the "United States Pharma-

S, statuary and embosser of Athens, emporary of Phidias, and flourished to 7 and 429 B. C. Pliny bestows praises upon his horses. Among brated works were a statue in metado Alexicacos, in Athens, in 429 B. hich has erroneously been supposed Apollo Belvedere; a colossal statue of bronze, 30 cubits in height, which to Rome by Lucullus; and a Jupiter onsecrated by Pindar at Thebes.

TE, an extinct species of fossil plants antly in the strata of the coal forentirely wanting above the secondan. They are large cylindrical stems,
u at intervals like the reed, and someinches in diameter, as is seen in

a specimen at Leeds. They are generally converted into sandstone, shale, or fire-clay, whichever of these rocks it may be, in which they are found. They have usually been regarded as cryptogamous plants of the equiests family; but by the investigations of Brongniart, it appears that these obscure stems cannot belong to any tribe of flowerless plants, but are more nearly allied to the gymnospermous dicotyledons. But Professor Williamson, while he admits their remarkable affinities with this family, is of opinion that the arrangement of their tissues differs widely from that of all known forms of gymnosperms.

of gymnosperms.

OALAMUS (Gr. καλαμος). I. A sort of reed, which the ancients used as a pen for writing on parchment or papyrus. Those which came from Egypt and Onidus were the most esteemed. When the calamus became blunt, it was sharpened with a knife. It was split into two nibs, like our modern pens. This instrument must not be confounded with the stilus, which was only used for writing on wax tablets. II. In the pastoral poets of antiquity, a pipe of reed, on which enamored shepherds would play; in construction probably resembling a modern fife

or flageolet.

CALAMY. I. EDMUND, an English Presby terian divine, born in London in Feb. 1600, died at Enfield, Oct. 29, 1666. He was educated to his baccalaureate at Pembroke hall, Cambridge. But at that time the Arminian controversy ran high, and Pembroke was in the interest of the Arminian party. Young Calamy expressed himself with so much freedom in favor of the opposite faith that he was cut off from a fellowship. He was, however, by Dr. Felton, bishop of Ely, appointed to a vicarage, and at the death of his patron was appointed lecturer at Bury St. Edmund's. Meanwhile, he became more and more opposed to the high-church party. Finally, on the publication of the Scottish liturgy and the "Book of Sports," Calamy left the established church, and spoke and acted plainly as a non-conformist. By the earl of Essex he was presented with the living of Rochford, which position he was compelled to resign, on account of his health, soon after. He now removed to London, and was afterward chosen minister of St. Mary, Aldermanbury. He acted a prominent part as a non-conformist divine, though a moderate one, during the rest of his life. Although an opponent of episcopacy, his opinions of which he published in a treatise, he strenuously urged the propriety of good treatment to Charles, and was in favor of the restoration. When, therefore, it was decided to invite the exiled son to the throne of his father, Calamy was appointed as one of the commission for that purpose. Calamy had been an active member of the assembly of divines. appointed by the house of lords in 1641 to report a plan for the reconciliation of the eccle-siastical difficulties of the realm. This was a siastical difficulties of the realm. project congenial to his views and temper. So long, therefore, as there was any hope of ac-

complishing it through the agencies and on the plan then suggested, he retained his position; but when the Savoy conference failed of any such result, he made one more unsuccessful attempt, and then, on the passage of the uniformity act (1662), resigned his living, having previously declined a bishopric from the royal favor, because of the strenuous conditions with which the gift was accompanied. For the re-mainder of his life he lived in retirement, venturing to preach only on one occasion (in the absence of the curate of the church he frequented), on which occasion he gave offence to the royal party, and was imprisoned in Newgate. He was soon, however, released. The great fire of London so affected him that it precipitated his death. II. EDMUND, the grandson of the above, born in London in 1671, died June 8, 1782, was educated in England and at the university of Utrecht, where he enjoyed the distinguished favor of many literary men. He had the offer of a professor's chair in the university of Edinburgh, which he declined, and returned to England, having favorable introductions from scholars on the continent to dis-tinguished English divines. But Calamy soon determined to be a non-conformist, which determination he carried out with great decision and earnestness to the end of his life. Beside holding various important appointments as a non-conformist divine, he published some works which evince his talent and zeal. Among them may be mentioned a continuation of the "Life and Times of Baxter," which went through 2 editions during his lifetime, and brings the history down to the passage of the "Occasional Bill" (1713); a vindication of his grandfather and several other non-conformists (1718); and a continuation of the lives of ejected ministers, lec-

turers, masters, &c., after the restoration (1728).
CALANCHA, FREY ANTONIO DE LA, a
Peruvian writer, born at Chuquisaca toward
the end of the 16th century, died near the
middle of the 17th. He was member of middle of the 17th. He was member of an Augustine convent at Lima, and in 1619 prior of his order at Truxillo. During the earthquake which in that year devastated that city, Calancha displayed the greatest firmness, and putting himself at the head of his order, he became of great service to the frightened inhabitants. He wrote a work on Peru, which was published at Barcelona in 1639, under the title of Cronica morulizada del orden de San Augustin en el Peru. In 1653 an abridged French edition of this work appeared at Toulouse, under the title of

Histoire de l'eglise du Pérou. CALANDAR, CHARAF BOU ALI, a Mussulman fanatic and saint of the 13th century. At Delhi he became acquainted with Khadja Coutb Ouddin, and in Asia Minor he was on terms of intimacy with Chams Tabriz, a Persian poet, and with Maulavi Roum, a Mussulman mystic, the founder of the order of the Maulavi, and the author of the poem "Masnavi." In his youth Calandar had devoted himself to the study of the natural sciences; but as (to use his own expression) divine t flashed upon his mind, he threw all into the river Jumns, and consecrate. of his life to religion. After having his extensive travels, he returned to town, where he stood in the odor of Even miracles were ascribed to him, and day devout Mussulmans make a pilgrir his grave.

CALANDSOOG, a village of Holl North sea. It was the scene of a victory after great loss, by the allied British as sian forces over the Dutch, Aug. 27. 1 CALAS, JEAN, a French Prot

in 1698, in Languedoc, martyr 1762. He was a merchant at rotto wife an English lady of French extractio evening in Oct. 1761, after the family tired from supper, his eldest son, Marc A a young man addicted to gambling, gloomy disposition, was found dead at trance to his father's house. Beside bers of Calas's family, there was at u no person in his house excepting M. L. a young gentleman from Bordeaux. the corpse of young Calas was disk the greatest excitement ensued, and the tude of Toulouse, who especially at th labored under the influence of religiou tion, ascribed the death of the young the fact that he had intended to becom vert to the church of Rome, and that his had murdered him in order to prevent cession from Protestantism. The he martyrdom were paid to young Calas Dominican friars and other Catholic b Toulouse. He was buried with great | catafalque erected upon his grave, and a placed upon it, with a martyr's palm hand, and the act of abjuration in the M. Calas the father was sentenced to wheel by a tribunal of 18 judges, whom dissented from the verdict. est boy, doomed to exile, fell into the i the priests, who threw him into a c with a view of forcing him to abjure Cal The daughters were imprisoned in a n A Catholic servant in Calas's family. vaysse, were acquitted, although t much ill feeling against the latter, as suspected of being a missionary of the nots of Guienne. The wife succeeded i ing to Switzerland, where Voltaire. resided at Ferney, became inter-case; and it was due to his int Elie de Beaumont and ot r yers took it in hand, and ol the judgment. The Calas umy were innocent, and a pension or \$6,000 g them by Louis XV.

CALASIO, Mario Dr., an Italian scholar, born 1550, in the kingdom of

died 1620, perfected his knowledge of while member of a F C an extent that he be

author of a Hebrew grammar and diction-,. His fame, however, rests upon his conof the Bible, which gives not only the w, but also the Latin version, affording at e time opportunities of comparing the with the Syriac, Arabic, and Chaldee rea. This work, which is highly valued logians of all denominations, was pubone year after his death, at the expense popes Paul V. and Gregory XV., and by one of Calasio's friends, Michel Ange t Romule. A 2d edition, revised by appeared at London in 1747, but the dition is the best.

SUNGAY, the name of a numerous e of once piratical savages, inhabiting the h province of Misamis, in the island of mano. Ten years ago this people were in lowest state of nature in which man is seeking shelter with apes in tree tops its of rocks, and, like them, subsistu me raw produce of the forest and the In 1849 a mission was established among or Spanish missionaries, of the same indeand devoted class who have brought such remarkable changes in the mental i physical condition of many of the wild of the Philippine archipelago. The Calahave abandoned their old haunts in the jungles bordering upon the Gunung wan range of mountains, and are now to see established in communities, cultivating of the plains that border upon the Luand Leagau rivers, and the bay of Hygau. ble quantities of grain gold have been av uiscovered in several streams descend-Gunung Inagawan, and a large portion calasungays are actively engaged in gold The auriferous soils of Mindano have eemed, by well-informed Spaniards modines, as much richer than those of tra, Celebes, or of any other porn the malay archipelago. But the wild rently irreclaimable character of the u tribes of Mindano, and the desperate of the Lanun pirates, who possess its coast, have effectually checked Spanrise upon the island until recently. Immonaries have opened the way to the d regions, and to many valuable products o this island; and should their success nuer tribes be equal to what has been efng the Calasungays, the island of ueemed hitherto inaccessible on acus the ferocity of its people, will present sting a spectacle as Luzon or New which exhibit the best specimens of a

uarbarism converted to civilization. wanATAYUD, a Spanish town in the prov-M Saragossa, on the Jalon. The desolate ualf ruinous condition of its streets destroys • avorable impression produced by the exppearance of the town. It stands in the of a fertile district, and provisions of all are cheap. There are some factories in the beside an episcopal palace, conventa, churches, barracks, hospitals, and various public buildings. Mineral springs and stalactitic caves exist in the vicinity, and the remains of the ancient Bilbilis, the birthplace of Martial,

are not far off. Pop. in 1852, 6,885.

CALATRAVA, José Maria, a Spanish statesman, born at Merida, Feb. 26, 1781, died Jan. 24, 1846. A lawyer by profession, he distinguished himself as an orator in the cortes of Leon and Cadiz, and was exiled in 1816 on account of his liberal principles. In 1820, when the new constitution was promulgated, he was allowed to return, was elected to the national cortes by his native district, and took a prominent position in opposition to Martinez de la Rosa. During the revolution of 1828, he officiated as minister of justice under the revolutionary government, at Seville and Cadiz, but on the advent of a French army in aid of Ferdinand VII., he was obliged to escape to England, where he remained until 1830, and where he continued to agitate as member of the junta of Bayonne. In 1834, after the death of the king, he brought about the establishment of juntas at Badajoz, Saragossa, &c., which proclaimed the constitution of 1812; and the result of this agitation was that, on June 18, 1837, Maria Christina promulgated a constitution more adapted to the requirements of the people. For some time he was member of the cabinet as minister of justice, but dissenting from the policy of Martinez de la Rosa, he tendered his resignation. He continued, however, to organize juntas, and, owing to his machinations, Espartero's deposition from the regency was decided upon by the cortes, Aug. 16, 1843. Subsequently Calatrava was elected member of the Spanish senate by several provinces, and this nomination was ratified by Queen Isabel II., soon after her advent to the Spanish throne.

OALATRAVA LA VIEJA, a ruined city of Spain, on the Guadiana. It contains the remains of the ancient city of Calatrava, which during the middle ages was considered the key of the Sierra Morena, and was well fortified. knights of Calatrava, members of a military order founded here in 1158, distinguished themselves by their exploits in the Moorish contests, but with the lapse of years the institution gradually degenerated, and toward the close of the 15th century the grand-mastership was united to the crown. Since 1808 it has been used as an order of merit. The ancient name of Cala-

trava was Oretum or Oria.

OALAVERAS, a county in the N. central part of California, bordering on Utah, and bounded on the S. E. by the Stanislaus river. It comprises an area of 8,000 sq. m. The Sierra Nevada, or Snowy range of California, passes through its centre, and it is drained by the Calaveras, Mokelumne, Walker's, and Carson's rivers. On Chyote creek, 4 miles S. of Valle-cito, are 2 natural bridges. Mining, especially for quartz, employs a large proportion of the capital of the inhabitants. The productions in 1856 were estimated at 25,495 bushels of

wheat, 67,181 of barley, and 16,940 of oats. There were 14 saw mills, 1 grist mill, 26 quartz mills, and 2 newspaper offices. Value of real Capital, Mokelumne Hill. estate, \$219,125.

Pop. in 1852, 20,192. CALAVERAS, a river of California, rises among the hills at the foot of the Sierra Nevada, in Calaveras co., and after a westerly and south-westerly course joins the San Joaquin river in the county of that name.

CALCAGNINI, Cello, an Italian scholar, born at Ferrara, Sept. 17, 1479, died Aug. 27, 1541. After having served in the armies of the emperor Maximilian and of Pope Julius II., and been employed on diplomatic missions to Rome by the duke of Ferrara, Alfonso I., he became, on his return, canon of the cathedral, and professor of literature at the university of his native town. Of his writings, which include treatises on philosophy, astronomy, and some poetry, his Quastionum Epistolicarum libri III. (Amberg, 1608), his De Rebus Ægyptiacis Commentarius, and his essays on some of the customs and ceremonies of antiquity, are the most interesting. He was a friend and correspondent of Scaliger, Alciati, and other eminent scholars of his day.

CALCAIRE GROSSIER, the building stone of Paris, constituting with the blue clay of the basin of London, which contains many identical shells, and may be said to be coeval with the calcaire, the types of the eocene tertiary series, as established by the English geologist Lyell.

CALCAR, JOHAN STEPHAN VAN, a Flemish painter of the Venetian school, born at Calcar in the duchy of Cleves, in 1499, died in Naples, 1546, studied at Venice under Titian, and subsequently practised his art at Naples. He excelled in imitating the manner of Titian and of Raphael. At Padua he designed the illustrations to Vesali's anatomical work, which for a long time were ascribed to Titian. Rubens possessed a "Nativi-ty" by him, in which the light proceeded from the infant, which at the death of Rubens was purchased by Sandrart, who subsequently sold it to the emperor Ferdinand. One of his portraits of a male figure with red beard, executed by him in 1540, is in the Louvre.

CALCAREOUS SPAR, also called calc spar, the very common mineral, crystallized carbonate of lime. It is remarkable for the great variety of its crystalline forms derived from its primary obtuse rhomboid, no less than 600 modifications having been described and figured. It is seen in a pure state in the transparent rhomboidal crystals of Iceland spar, so called because the finest were originally brought from Iceland. These exhibit the property of double refraction most perfectly. Calcareous spar is white or transparent, except when mixed with some foreign ingredients, which impart to it various shades. It is so soft as to be easily cut with a knife, its hardness being rated at 2.5-3.5. Its specific gravity is 2.5-2.77. Acids dissolve it readily, causing a strong effervescence as the carbonic acid is expelled.

This is also expelled by heat, the mineral then converted into quicklime, or the protof calcium. The proportion of this ous spar is 56 per cent., and of 44 per cent. Some of the finest unik this mineral are from the Rossie lead St. Lawrence co., N. Y., where a single of was found weighing 165 lbs. It is a gangue in metallic veins, and often fo in rock formations of almost all ages, even no ores are present. It possesses no valu ferent from that of ordinary limestones these are from their great abundance more cheaply obtained for the manufac quicklime, or for fluxes of ores, than the tallized mineral could be.

CALCAREOUS SPRINGS. Rain water taining carbonic acid gas, and other v also more highly charged with this gas, the property of dissolving the carbonate o they come in contact with, as they per through the strata of rock beneath the st When the water rises in springs, it charged with calcareous matter; and evaporates, this load is deposited in the fc calcareous incrustations. Such springs times rise through granitic rocks and formations, which contain little or no stone, this being in these instances suppl the water from some distant formations i flowed through. By this provision of the carbonate of lime required by shell-us plants is distributed abundantly in place would otherwise be destitute of it. by Sir Charles Lyell that in central Fra district where the primary rocks are unu destitute of limestone, springs copiously cl with carbonate of lime rise up throug granite and gneiss. Some of these are the and probably derive their origin from the source of volcanic heat once so active i region. One of these springs near Cle has formed by its incrustations an ele mound of travertine, or white concreti limestone, 240 feet in length, and at its nation 16 feet high and 12 wide. Anot the same region rises in a gneiss country foot of a volcanic cone, at least 20 mile any calcareous rock. The deposit of springs is often a spongy, porous sub called calcareous tufa, or calc tuff. It take impression of the objects it encloses, as twigs, and branches of trees, and r forms, if not the material itself, in it stance. When freshly quarried, it is into any shape, and is therefore con- applied to building purposes. The G temples of Pæstum are built of it, and has in them assumed great strength and a In the central parts of New York, cially in the vicinity of Seneca and (lakes, deposits of this nature are ver quent. They form beds of marl beneath swamps, and in the bottoms of ponds and Wherever the calcareous water flow aquatic plant chara grows abundantly,

to obstruct the water courses, and removal necessary. As the plant tems become incrusted with carbo
le inew green growth continues reyond, which is soon to be filled ne stony incrustation. The of careareous matter is as favorable

of carcareous matter is as favorable th of fresh-water testacea as of the those which are found in the oldest rmations are still of the common

-water species.

IEU, a river of Louisiana, not naviises in the western part of the state, gh the parish of the same name, and herly course of 250 miles enters the

ico.

SiEU, a south-western parish of cordering on Texas, and reaching to river on the W., and the Mermen-S. E.; area 5,500 sq. m. The soil ity of the streams is fertile, and the ich is level, is principally occupied or grassy plains, affording pasturnumbers of cattle. The produció were 150 bales of cotton, 116,280 indian corn, 260 barrels of molasses, ads of sugar. Pop. (1855), 8,545, were slaves.

5 miles from the gulf of Mexico, is than an expansion of the river of same. Length, 18 miles; greatest or 6 miles.

MS, the wisest soothsayer among the Troy, explained the cause of the which desolated the land, advised m of the wooden horse, foretold the e Trojan war, and died, as predicted e, on meeting the soothsayer Mopprophetic power was superior to his

ATION (Lat. calz, lime), originally, n of converting limestone into quick-

The word was afterward used by s to designate any similar process are rendered brittle and easy of n by the action of heat. The term lied to several different processes: eparation of some volatile substance eral or organic body by heat, withon of air; another is in rendering it by subjecting it to sudden changes re; and another, in increasing its rendering it less sensible to the spheric and chemical agencies. ters of wood are expelled by for the production of charcoal, or ocess may be employed for the colof the volatile ingredients, as the gas poses of illumination, or the liquid pyroligneous acid, naphtha, &c.

is calcined for the preparation agas. As applied to wood and coal, is also called carbonization. Variiron, of zinc, and of copper, as the hydrates, and sulphurets, are also

calcined for expelling the volatile carbonic acid, water, and sulphur, and thus preparing the cres for reduction. Quarts and other hard stones, intended to be reduced to powder for use in glass-making or pottery, are rendered brittle by bringing them to a white heat and then suddenly quenching with cold water. Calcination is also applied to the process of baking by which bricks, earthenware, &c., acquire hardness and cohesion.

CALCIUM, the metallic base of lime. It was discovered by Sir H. Davy in 1808, but is very rarely prepared, and in quantities too small for its properties to be accurately investigated. It may be obtained by passing the vapor of potassium at a red heat over quicklime which is contained in an iron tube filled with hydrogen. It may also be prepared by subjecting lime in contact with mercury to the action of the galvanic battery, by which an amalgam of mercury and cattery, by which an amalgam of mercury and cattery, by which an amalgam of mercury and the distilled off from the calcium. It is a white metal resembling silver, much heavier than water, and requires a high temperature for its fusion. Its chemical equivalent is 20.5; its symbol, Ca. Heated beyond its fusing point, it burns with a white light, combining with 8 parts of oxygen to 20 of calcium, and forming the protoxide of lime. Its most important salts will be treated of under their familiar names.

CALCULATING MACHINES. Plato, in the 5th century B. C., invented a sliding square to solve the problem of 2 mean proportionals, and Nicomedes, 8 centuries afterward, invented his celebrated conchoid curve for solving the same problem and trisecting an angle. Some mechanical devices for assisting in arithmetical computation were also in use at a very early age; but these were exceedingly limited in their operations, and therefore of little practical use. The same may be said of the more ingenious contrivances devised in the beginning of the 17th century, Gunter's scale and Napier's bones. John Napier, who was probably the first man to suggest the modern notation of decimal fractions, and whose invention of logarithms was well called conon mirificus, devised 2 modes of mechanical computation, one by means of square rods engraved with the Arabic figures, the other by means of circular plates. Napier's wonderful discovery of logarithms was made by Edmund Gunter the basis of a very simple machine, consisting merely of a straight line graduated to logarithms, but marked with the corresponding numbers. Addition and subtraction can be performed upon this line by means of a pair of dividers, and the correspond-ing number by the side of the line will be products, quotients, and factors. But Pascal, in 1642, at the age of 19, invented the first arithmetical machine properly so called. It is said to have cost him such mental efforts as to have seriously affected his health, and even to have shortened his days. This machine was, about 80 years afterward, improved by L'Epine and Boitissendeau, but it never came into practical

use. It consisted essentially of short barrels, upon whose circumference the 10 figures were inscribed, covered by a box, 1 figure alone of each barrel being visible through a row of little windows on the upper surface of the box. These barrels were so connected that 10 revolutions in one produced 1 revolution in the next, the revolutions of the 1st barrel being performed by hand to correspond with the numbers to be added. Subtraction was performed by the device recently reinvented in this country ("Montreal Proceedings of the American Association for the Advancement of Science") of having each figure on the wheels accompanied by a smaller figure, such that the sum of the 2 was equal to 9. Whatever number was added to the large figures was, of course, subtracted from the smaller. In 1678 Leibnitz published a description of a machine (Miscellanea, tom. i., Berolin) which was much superior to that of Pascal, but complicated in construction and too expensive for the work which it was capable of performing, which was only that of arithmetical addition, subtraction, multiplication, and division. But the glory of Pascal and Leibnitz, as inventors of calculating machinery, has been entirely eclipsed by Charles Babbage and by Messrs. G. and E. Schentz. The British government began in 1821 to build a machine under Mr. Babbage's direction. Early in 1883 a small portion of the machine was put together, and was found to perform its work with the utmost precision. In 1834 Mr. Babbare commenced the design of a far more powerful engine, but nothing has been done toward its construction. These machines of Babbage are enormously expensive, \$90,000 having been spent in the partial construction of the 1st. They are designed for the calculation of tables or series of numbers, such as tables of logarithms, of sines, &c., and are based upon the fact that if we make a new table, consisting of the differences between the successive numbers of the 1st table; then a 8d table, consisting of the differences of the successive numbers of the 2d table; then a 4th table in like manner from the 8d; and so on, we shall at length generally obtain a table in which the numbers are all alike. If we had then given to us the 1st number in each of these tables, we might, beginning with the table in which all the numbers were alike, get back to the original table, by a simple process of addition. Thus, by this principle of differences, the computation of all tables is, in general, reduced to a process of addition. The machine prepares a stereotype plate of the table as fast as calculated, so that no errors of the press can occur in publishing the result of its labors. Many incidental benefits arose from the invention, and among them the most curious and valuable was the contrivance of a scheme of mechanical notation by which the connection of all parts of a machine, and the precise action of each part, at each instant of time, may be rendered visible on a diagram, thus enabling the contriver of machinery to devise modes of

economizing space and time by a proment of the parts of his invention. T ical notation of Babbage (" Philosophi actions," 1826) is for an inventor of the what the notation of algebra is to the geometry. The machine purchased for use! ley observatory by Mr. Rathbon of Albany suggestion of Dr. B. A. Gould, was inventor to G. and E. Schentz of Stockholm, and fine in 1853. The Swedish government paid & 000 as a gratuity toward its construction. The inventors sought to attain the same ends th Mr. Babbage had attained, but with sim means. Their engine proceeds by the of differences, calculating to the 15th pure decimals, and stamping the 8 left hand placin lead, so as to make a stereotype mould fro which plates can be taken by either a stere type or electrotype process, ready for ti printing press. It can express numbers decimally or sexagesimally, and prints by u side of the table the corresponding series numbers or arguments for which the table calculated. It has already been employed Albany in calculating a table of the true anon aly of Mars for each 15 of a day. Mr. Babba has seen this machine and given it the m dial praise. In size it is about equal to a piano.—("Edinburgh Review," July, 1 bage's "Ninth Bridgewater Treatise; clopédie méthodique (Art. Arithmétique, Equation); "Napier's Life," by Mark Napier CALCULI, stone-like concretions which for in different parts of the body, often about som undissolved particle in the fluid, which the matter of the concretion in solut again as a deposit upon some hard the tartar which collects upon the work the intestines the concretionary deposits sometimes mechanical agglutinations of fibrous particles, as the fine down of the wagathered about a piece of bone or stone of som fruit, and intermixed with layers of phos of lime. The fluids of the body may depos concretions in most of the vessels, organs, tissues. They are left by the blood in the 4 ies and valves about the heart; by the the mouth, in the substance of the cured . well as upon the teeth; by the bile in the bladder; they are found in the tissues of lungs and in the bronchial glands, and in persons under the skin, about the joints or fingers and toes, &c. But their most occurrence is in the kidney, bladder, nary passages, left by decomposition of teplex fluid of these organs. Urinary variously composed, and may be classed as " which are soluble in caustic potash or a those which are insoluble. One of common of the former class is the uric and culus. This ingredient in urine, when seer undue proportion, forms minute red cr red sand, which are passed in a solid retained, they increase in size and prouse disease called the stone. The acid, if; in excess, is deposited in successive

vellowish-colored stones of such size can be removed only by the operation ! lithotomy, which is making an incisthe bladder and removing the stone by or of lithotrity, which is the introduc-an instrument into the urethra, by ne stone is broken, so that it may be by voiding it in fragments. If the is not in excess, the concretion once l is liable to be covered with an inn of an ammonia-phosphate of magof a phosphate of lime, and thus in size. These phosphates when delone, as is sometimes the case, are inmong the insoluble calculi, of which rieties are produced in the forms of of oxalate of lime, called, from their nce to the mulberry, the mulberry cala brown color and octahedral form, or ke a dumb-bell, which are sometimes or the uric acid calculus; and again nate of lime, which are of rare occur-Other calculi, which belong to the solu-, are formed with uric acid in combirith ammonia; others of cystic oxide ne. and of xanthic oxide or xanthine. tinguished from each other by their es of color, different degrees of , and their peculiar reaction with difnemical agents, but more readily than peculiar shapes they assume, which r marked, and unlike those of any ces. Concretions of uric acid are numon with children, and recur in the ons in advanced age. Those are most them who suffer from dyspeptic and adencies, as well as from a scorbutio tendency to cutaneous diseases. ion of their appearance is an habitual of the urine. When this is observed rouble may in most cases be obviated mlar attention to the diet, and by the oper medicines; but if the concretions ved to increase till they are too large 1, there is then no other recourse to w but an operation; for, once formed, never afterward absorbed, nor is any for them discovered, upon which de-can be placed.—Calculi deposited by in the gall bladder, the liver, and its e known as biliary concretions and as es. They are usually of a round or and of various colors, as white, yelwn, and dark green. Sometimes they and sometimes brittle and easily pulo an unctuous powder; their size has, cases, reached that of a walnut. In y generally consist of cholesterin, more ntermixed in the mucus and coloring f the bile; but some have been found g of carbonate of lime 72.7 per cent., te of lime 13.51, and mucus 10.81. h composition is very variable; ug of the same ingredients as are

n a calculus taken from an ox, con-

taining little else than margarine and margaric acid. Domesticated animals are very subject to this disease in some of its forms. Almost every ox that is slaughtered has several calculi in the gall bladder. Horses are destroyed by them in the intestines and in the brain; and in the stomachs of ruminating animals they are found in the form of balls of hair, earthy matter, and food cemented around some hard central nucleus.

CALCULUS, in mathematics, a mode of calculating. In this broad signification we may speak of common arithmetic and algebra as forms of a calculus. Thus also trigonometry is called the calculus of sines, and the doctrine of chances is spoken of as the calculus of probabilities. The branches of mathematics to which the term is more especially applied are the differential calculus, integral calculus, calculus of variations, to which we may add the calculus of imaginaries, that of residuals, and that of quaternions.—The IMAGINARY CALCULUS investigates the nature of quantities which are required to fulfil apparently impossible conditions. It has been discovered by means of this calculus that every absurdity in geometry can be reduced to an attempt to measure a straight line in a direction different from that of its length; and that every algebraic absurdity can be represented by one symbol, always capable of this one geometrical interpretation. extensively useful calculus has been chiefly developed by M. Cauchy.—The RESIDUAL CALculus investigates cases of apparent impossibility, arising from the attempt to measure a quantity which has become immeasurably great. Imaginaries and residuals are chiefly employed as subsidiary to the operations of the higher species of calculus.—The DIFFERENTIAL CALCULUS, invented by Leibnitz, is identical in its nature with the fluxionary calculus of Newton, differing only in the form of its thoughts and language. It investigates cases of apparent impossibility arising from the attempt to measure quantities immeasurably small, and evades the difficulty by measuring the ratio which such quantities bear to each other. Its use arises from its capability of measuring the rate of change in variable quantities. The problems of this calculus are always of this form, "to find how the change in some variable quantities alters at each instant the value of a quantity dependent upon them." When the changes are gradual and the investigation covers each point of the way, the changes are called differentials. If the change is by distinct steps, the changes are called differences, and the forms of calculation are somewhat different.-The In-TEGRAL CALCULUS is the reverse of the differential, and seeks to find from a known ratio between the changes of two quantities (mutually dependent on each other) what the unknown relation or law of dependence between the quantities themselves must be; or, in the language of the calculus, the integral of a given function (i. s. law of dependence) is a required

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new function of which the given function is the differential.—The CALCULUS OF VARIATIONS investigates the changes produced by gradually altering the laws of dependence which bind the variable quantities together. This invention of Lagrange crowns the calculus of functions, which by means of these five branches is capable under a master's hand of tracing out very com-plicated and intricate chains of inter-dependence in every part of the domain of quantity. And yet there is not one of these calculi that can answer all the questions which the physical sciences ask of it. More powerful engines of analysis may yet be invented by future mathematicians.—The CALOULUS of QUATERNIONS, published by Sir W. R. Hamilton in 1853, promises to do something toward supplying this defect. By combining in one notation the direction as well as the length of line, he is enabled to express in a single symbolical sentence an amount of geometrical truth, which in ordinary analytical geometry would require at least four sentences. No other writer has yet mastered this powerful instrument sufficiently to use it with ease; but the verdict of mathematicians is unanimous in praise of its ingenuity, and probable future utility.—The difference between the powers of the principal calculi may be familiarly illustrated by the cycloid, a curve described by a nail head in the tire of a wheel rolling on a straight level road. The differential calculus would investigate the direction in which the nail head moves at each instant of its motion, and show the proportion between its rise, its fall, its horizontal motion, its motion through space, the curvature of its real path, and the revolution of the wheel at each instant. The integral calculus would, from these elements, discover how far the nail head travelled in one revolution of the wheel, how much space is enclosed between its path and the ground, &c., &c. The calculus of variations would consider the change made by the wheel rolling over a hill; or would show how the cycloid differs in its properties from similar curves.

CALCUTTA (Kali Ghatta, the ghaut or landing-place of Kali, the goddess of time), a city of Hindostan, capital of the presidency and province of Bengal, and the metropolis of British India, situated on the left bank of the Hoogly, 100 miles from the sea, lat. 22° 35′ 5″ N., long. 88° 19′ 2″ E. Its foundation is due to Mr. Job Charnock, an agent of the East India company, who removed the company's factories from the town of Hoogly to this place in 1686. This establishment was broken up a few months after, but was restored in 1690. In 1700, 3 small villages near the factories, one of which bore the name of Calcutta, were assigned to the British by way of return for a present made by them to Azim, a son of Aurungzebe. They were immediately fortified, and in compliment to the reigning king of England, called Fort William—a name which is still retained in parliamentary documents. One of these villages occupied the site of the present European quar-

ter, another stood where the native r are now erected, and the 8d has gi to a beautiful plain or maidan on ti of the city, in the midst of which the new citadel of Fort William. protection of the old fortress, now into a custom-house and warehouse, gradually arose, which in 1707 was seat of a presidency. In 1756 it was by Surajah Dowlah, nawaub of Be garrison, composed of 170 English tru natives, 94 of mixed races, and a miliamong the inhabitants of 250 men, ir soldiers, were ill prepared for such a the natives soon made their escape; th or and commandant, with the great the inhabitants, followed their exs when the enemy forced their way town (June 20), only 146 men fell The sufferings of this lit handa. in the dungeon known as the "Bla have been described in a previous (see BLACK HOLE). Eight months : Clive and Watson recaptured th peace was restored, valuable concess obtained from the native rulers, and resumed its career of prosperity. Meer Jaffier, the successor of Surajah remitted the rent which the East India had previously paid for the tenure of On ascending the Hoogly, the sc for many miles from the sea is dre viting, becomes more picturesque proaches Calcutta. On the left are time gardens, stocked with many varieties nous and exotic plants, and the Bishop' handsome Gothic edifice erected und pices of the society for the propagation pel in foreign parts; on the right is the suburb of Garden Reach, with its cou surrounded by elegant gardens. are the government dockyards; begins the arsenal, and still further up the in the esplanade which forms the sout of the city, rise the ramparts of For reputed the strongest in India. begun by Clive in 1757 after the batt sey, requires for defence 600 pieces and a garrison of 9,000 men. city extends about 41 miles al has an average width of 11 of 8 miles. On the land side it as ear by a spacious way called the circular ing the boundary of the city and of 1 istration of English law. Its we bordered by a quay called the st above low-water mark, and 2 ghauts, or landings, at intervi ance of Calcutta from the river and seems to justify the app Palaces," so often bestoweu upon closer inspection shows that altho ropean buildings, both public and nearly all splendid and ex who occupy a distinct quarter of surrounded by poverty and filth.

of mud, or bamboo and mats; the narrow and unpaved, and until a few were often filled with stagnant pools. This section, which forms the northf the city, is called the Black Town.
ean houses are built of brick covered to, are generally detached from one ad have spacious verandahs. Most of situated E. of the fort, in the Chow-

ier, where the streets are wide and The principal public buildings are ment house, surmounted by a large fronting on the esplanade; the custown-hall, treasury, mint, cathedral l, a splendid Gothic structure com-1839, 4 Roman Catholic churches, 8 hurches, 7 churches and chapels of estant denominations, a Greek and an church, a synagogue, 74 mosques, to temples, and 1 Chinese temple, numerous educational establishments, he university, founded in place of the t William college, the college Pantsthe Bengal school, the Hindoo coldrussa or Mohammedan college, the

drussa or Mohammedan college, the mege, the Martinière, founded under Gen. Claude Martin to afford instructed in the college of both sexes; St. Xavier's coted by the Jesuits, and various missions and academies for both sexes. 5 hospitals, a lunatic asylum, an asylers, a sailors' home, a fund for the ind, 2 orphan asylums, dispensaries, ank, 2 other banks, and several comciations. Among many scientific

the most famous is the native medb. The city is supplied with water
tanks which obtain their stores from
rains. There are no less than 1,043
b of which are public. The shops
are furnished with a plainness which
a stranger forcibly, but every kind
f every quality can be purchased as
in England. The principal suburbs,
a Reach, are Allipore, Ballygunge,

f every quality can be purchased as in England. The principal suburbs, a Reach, are Allipore, Ballygunge, th, and Simla, the last 3 being the principal suburbs. The climate, forered exceedingly dangerous to forsome been much ameliorated by clearing arrounding jungle, draining, &c. The during the bracing cold season, st of November to the end of Februfrom 70° to 75°. From this time the heat increases, reaching 100°, the open air. It is followed by the out, which lasts till October.—The of Calcutta according to the census to last taken, was as follows:

s (progeny of white fathers and	-,
mothers).	4,615 892
B	847
	74,885 10,918
l in the city4	18.189

Including the suburbs, the population is about 800,000. The British merchants form the most respectable and wealthiest class. The Armenians are largely engaged in commerce with various parts of the East, and the retail trade is almost monopolized by the natives. The principal factories in the city and neighborhood are a government foundery, a sugar manufactory, several corn, flour, and oil mills, a boiler manufactory, and the Gloucester cotton mills. The exports are opium, indigo, sugar, saltpetre, rice, cotton, hides, lac, &c.; the imports are metals, piece goods, twist and yarn, salt, betelnut, glass ware, wines, woollens, books, &c. The commerce of all the interior of Bengal, and almost of the whole of India, centres here. The imports of Calcutta in 1853, covered a value of \$42,000,000, and the exports \$56,000,000. The entrances and clearances amounted in 1856, to

1,201 British vessels, tonnage, 790,688 794 foreign " 444,842

Total 1,995 vessels, 1,284,975 tons.

About 500 vessels are annually engaged in the coasting trade. The opium sales of the East India company at Calcutta in 1856, were to an extent of \$19,000,000. The trade is carried on chiefly by the Hoogly, which communicates with the Ganges, and with the bay of Bengal. It is here about 1 mile wide, and is navigable by vessels of 1,400 tons. A railway from Howra opposite Calcutta, was completed as far as Burdwan, in the early part of 1857, and when entirely finished will establish a connection with the upper regions of the Ganges. Its length will be 1,850 miles. Electric telegraphs between the principal cities of India have been in operation since 1855. Continuous communication is kept up with Great Britain by fine vessels sailing around the Cape of Good Hope, and by the peninsular and oriental and the eastern steam navigation companies, which carry mails and passengers by what is called the "overland route," viz., through the Mediterranean to Alexandria, thence by land to Suez, and thence by steamer to Calcutta. Calcutta is the seat of the governor-general of India, of the lieutenant-governor of the presidency of Bengal, of the important courts of law and of an Anglican bishop. The city is also the focus of the missionary enterprises in East India, and missionaries of all denominations, comprising also within the last few years those of the Unitarians, are to be found there. Several newspapers and magazines are issued in Calcutta; of the former must be mentioned the "Hurkaru," the "Englishman," the "Calcutta Gazette," the "Friend of India," the "Calcutta Asiatic Observer," the "Bengal Observer," and among the latter the "Calcutta Eview." The journals here enumerated are written in English, but there are several published in Persian and Armenian, and in the different native languages.

CALDANI, LEOPOLDO MARCO ANTONIO, an Italian anatomist, born in Bologna, Nov. 21, 1726, died in Padua, Dec. 30, 1818. He was professor of anatomy in the university of Bologna, where, after a great number of experiments, he published his work on the "Insensibility of Tendons." But impatient of the contradictions which his views received, he left Bologna for Padua, and succeeded Morgagni there. At an advanced age, and with weak eyes, he published, with some assistance, a

series of accurate anatomical plates.

CALDARA, ANTONIO, a composer, born at Venice in 1678, died there in 1768. At the age of 18 he wrote an opera, which was successful, and for many years thereafter devoted himself exclusively to that species of composition. He was for a while instructor in music to the emperor Charles VI. at Vienna. He abandoned the stage on the failure of his opera of "Themistocles, and during the remainder of his life wrote sacred music, which is generally preferred to his operas.—Polidoro, a Milanese painter, also called Caravaggio, after the name of the place where he was born in 1495, died in 1548. When a poor boy he came to seek his fortune at Rome; he was employed in carrying mortar for the artists who were engaged in fresco painting in the Vatican. The artists, who happened to be all pupils of Raphael, were struck with his talents, and admitting him to their studios, he made such rapid progress that Raphael selected him to paint the friezes to his works in the Vatican.

CALDAS, Francisco José de, a naturalist of New Granada, born at Popayan in 1770, executed by order of Morillo, 1816, on account of his liberal political opinions. By his own unaided efforts he mastered the rudiments of astronomy, botany, and medicine, and constructed a barometer and sextant, although he had not even books to guide him in his studies. He accompanied for some time the Spanish explorer, J. C. Mutis. Subsequently he explored the Andes and the Magdalen river, and in 1804 measured the height of Chimborazo and Tunguragua. After having been nominated director of the observatory at Santa Fé de Bogota, he began to edit in 1807 the Semenario de la Nueva Granada, which was unfortunately interrupted by his untimely death.

CALDAS PEREIRA DE SOUZA, ANTONIO, a Brazilian poet, born in Rio de Janeiro in 1762, died in 1814. His writings, which are marked by a high moral tone, especially an ode on "Man in the State of Barbarism," were published in Paris in 1821, under the title of Poesias sagradas e profanas, with a commentary by Gen. Stockler. At Coimbra, where the poet had studied, a new edition of his poetical works, exclusive of his translations, was brought out in 1886. While at the university of Coimbra, he gave umbrage to the inquisition; and on being consigned to a convent, he devoted himself to the clerical profession.

CALDER, a river of England, in Yorkshire, West Riding. It rises near Burnley, on the E. borders of Lancashire, and thence flows E. until reaching Wakefield, where it makes the N., and joins the Aire near Castle a course of 40 miles, for 30 of which igable. It is important as a part of portation route across the kingdom for pool to Hull, and is connected by a Todmorden, Rochdale, Hude ld. (ifax, and Barnsley.—Anot reashire, and 2 in Scotland, wear the

CALDERINO, DOMIZIO, an Itaborn at Torri in 1447, died in 1478. of 24 he became professor of bellessecretary of Sixtus IV. at Rome. and Politian he edited and published a editions of the Greek classics.

editions of the Greek classics.

OALDERON, SERAFIN, a Spanish at Malaga in 1801, studied law at Griprofessor of poetry and rhetoric in then practised law; published in Poesias del Solitario, and in 1840 two poetry; to the Cartas Españolas in contributed Andalusian sketches; wr which the interests of Spain partiquired on administrative principles, stance of the government; in 1834 auditor-general of the army of the no 1836 civil governor of Logrofio; in 1 drew from politics. In 1838 he Cristianos y Moriscos, a novel. He Arabian scholar, and thoroughly Moorish literature. He has made a of Cancioneros y Romanceros, w poses to publish.

poses to publish.

CALDERON DE LABARCA, Frank, authoress of "Life in Mexico," I beginning of this century in Scotland ther, Mr. Inglis, was a grandson of Colwho fell at Preston-Pans. She resigned who fell at Preston-Pans. She resigned with her mother to the awhere they established a school awhich the daughter officiated as teryears. In 1838 she married the Spister at Washington, Don Calderon dand afterward accompanied her Mexico. In 1843 she published. Mexico, which gained for her considerations.

ary reputation. CALDERON DE LA BA Spanish dramatist, born in 1600, died May 25, 1681. tary of the treasury under Funn at. III. He received his fl Rtion Jesuits, and subsequal v d the losophy, and civil anu aw at While in the university, at wrote his first play for the st Ciclo. In 1625 he enrolled u mon soldier in the army, and took an part in the military of the Netherlands. In 1000, mally attached to the court, as were m Lope de Vega, for the purpose of w for the royal theatres. As a itary order of Santiago he week in quelling the Catalonian:

ed a drama which he had he le Amor y Zelos), and then m 1849, when the new queen, Austria, made her entrance into on presided over the festal ar-As his reputation increased, his ity increased also. He wrote secuor religious plays, odes, songs, or me academies of which he was a ind for the popular poetical festivals. entered a religious order; in 1658 he plain to the royal cemetery at Tothe king, in order to secure his drid more regularly, appointed to the palace. In the same year a priest of the congregation of San soon rose to be its head. Without in the least with his labors for the se ecclesiastical connections brought s for religious plays from Seville, 'oledo, and other influential cities, in the plays which he regularly furhe city of Madrid for the great annual Corpus Christi. Like Shakespeare, took little interest in the publicas, with the exception of some pieces, which he revised before press. Beside 108 comedias, he eligious plays, or sacramental autos, -length religious plays. The performse took place in the afternoon during stiv before the people and the o muded with music and dancing, muinents were organized by the u took place daily for a month, the es being shut, and the whole popn the public streets to witness the and also to admire the fantastic gamits and other curious exhibitions een. Calderon's autos turn upon and Spanish history. Satan takes a part in the plays, and Quevedo says personage comes on the stage dressed talks as if the theatre were alto-own." Passages of fine lyric poetry One of the most important of the lays, by the comprehensiveness of its md the superior merit of its poetry, rine Orpheus." Of his full-length re s, the "Purgatory of St. Patrick," ous connection with the patron u, has a love-plot, which savors but sanctity. His "Devotion to relebrated for its devotional passeen translated into German by sublegel. The "Wonder-working inded on the story of St. Cyprian, st picturesque and interesting plays, which include also one and conversion of the Indians ru in Copacobana. His secular atriguing, like "Nothing like heroic, like "A Friend Loving and hile a few are passionately tragical, we survives Life," and the "Phy-own Honor." The most curi-**VOL. IV.—15**

ous historical and geographical solecisms repeatedly occur in the plays. In the Virgen del Engravio, a bishop of the 8th century gives, upon the authority of Herodotus, a description of America, which was discovered after the good man had mouldered in his grave for 700 years. In his Afectos de Odio y Amer, the Austrian river Danube is transferred half way between Russia and Sweden. Calderon reliabed this confusion more than any one in his audience, and in his Los Dos Americs del Cielo, a pagan clown of ancient Rome is beginning to prate about friare, as if friars had existed in heathendom, when Calderon makes him correct himself; and with indescribable drollery in his manner, the clown adds:

Porque au no ay en Roma frayles.

— a friar, but that's not right,—there are no frisms
As yet in Rome.

Nor is he very particular about preserving the national individuality of his characters. His Zenobia, Jupangui, Judas Maccabæus, &c., might as well have been brought up on the shores of the Ebro, as on those of the Nile or the Peruvian lakes. Like Shakespeare, he sactifices all conventional rules, and concentrates he whole genius upon the production of the utmost effect upon the audience, and in this he succeeds. His drama, "No Monster like Jealousy," exhibits, next to Shakespeare's Othello. perhaps more powerfully than any other drama, the passion of jealousy upon the stage. The "Physician of his own Honor," is one of his most popular comedies. The "Firm-hearted Prince," and "Life is a Dream" (included in Schlegel's translations), are great favorities on the German stage. The great Corneille took his Heraclius from Calderon's drama of the same pame: and his No loss Bueles are all same name; and his No hay Burlas con el Amor suggested to Molière the Fommes Sa-Amor suggested to Monere the remnes co-eantes; his Astrologe Fingido, to Thomas Ocr-neille the Frint Astrologue, from which Dry-den took "An Evening's Love, or the Mock As-trologer." His "Fairy Lady," "Scarf and Flower," are among the most effective Flower," are among the most effective of comedies. The "Last Duel in Spain," "Hate and Love," and other plays, were peculiarly attractive at the time of their representation by the contemporary allusions which they contained, the latter referring to Christina of Sweden. Some of his plays were brought out with great pomp, as "Love the Greatest Enchantment," in a floating theatre, erected on the artificial waters in the gardens of the Buen Retiro. He wrote his last drama, *Hado y Devica*, founded on the fictions of Boiardo and Ariosto, in his 81st year. Among the dramatists of other nations who hav posched most in Calderon's dramatic fields, are the younger Corneille, and the Italian Gozzo. Several of his plays have been translated into German, and some of them into other languages. Many of them still maintain their popularity on the Spanish stage. Goethe said of Calderon, that he belonged to those

men who blend genius with the utmost common sense. His character presented a rare union of dignity and suavity, of industry and modesty.

CALDERWOOD, David, a Scotch divine and prominent champion of Presbyterianism, born toward the end of the 16th century, died in 1651. He underwent imprisonment and exile on account of his opposition to Episcopacy, having published in Holland, in 1628, a book against that form of Christianity, under the title of Altere Damascenum. He left a history of Scotland in MS., of which 6 volumes are preserved in the library of the Glasgow university, and of which a condensed summary appeared in 1678.

CALDWELL. I. A north-western county of North Carolina, occupied chiefly by pasture lands, but producing also corn and oats; area, 450 sq. m. A portion of the surface is mountainous, the N. W. part comprising a declivity of the Blue Ridge. The productions in 1850 were 192,470 bushels of Indian corn, 84,406 of oats, and 39,813 lbs. of butter. There were 4 corn and flour mills, 1 linseed oil manufactory, 84 churches, and 680 pupils attending public schools. Value of real estate in 1857, \$698,319. Pop. in 1850, 6,317, of whom 1,208 were alayes. Capital, Lenoir. II. A northern were slaves. Capital, Lenoir. parish of Louisiana, intersected by the Washita, which is here navigable by steamboats; area, 528 sq. m. The surface is hilly, and corn and cotton are the chief productions of the soil. In 1855 it yielded 2,957 bales of cotton, and 62,960 bushels of Indian corn. Capital, Columbia. Pop. in 1855, 8,685, of whom 1,779 were slaves. III. A central county of Texas, named in honor of John Caldwell, a senator of the Texan republic; area, 540 sq. m. It has an undulating, wellwooded surface, and a good soil, abundantly watered by the San Marcos river, which forms the western boundary, and by several small creeks. In 1857 it contained 4,451 horses, valued at \$176,860, and 15,244 head of cattle, valued at \$89,180. Value of land, \$758,620. The staple productions are wheat, Indian corn, and cotton. Pop. in 1856, 5,469, of whom slaves. 1,881 were Capital, Lockhart. IV. A county in the western part of Kentucky, bounded on the S. W. by the A county in the Tennessee river, and traversed by the Cumberland; area 700 sq. m. The surface is generally level, and the soil produces tobacco, corn, wheat, and oats. There are pasture lands scattered over the county; iron ore is abundant, and a large bed of coal has been opened in the northern part. Organized in 1809, and named in honor of a former lieutenant-governor of the state. The productions in 1850 were 767,725 bushels of Indian corn, 89,557 of oats, 1,435,-479 lbs. of tobacco, and 20,649 of wool. There were 40 corn and flour mills, 7 saw mills, 10 distilleries, 3 large iron works, 2 newspaper offices, 30 churches, and 670 pupils attending public schools. Value of land in 1855, \$943,684. Pop. in 1850, 13,048, of whom \$,107 were slaves. Capital, Princeton. V. western county of Missouri, intersected creek, and having a flat surface and a area, 435 sq. m. It produces coroats, cattle, and swine, and in 1 12,734 bushels of wheat, 16,135 of in 45,740 of oats, and 13,691 lbs. There were 2 saw mills, and 115 pupiing public schools. Named in hom Caldwell, of Transylvania university, I Pop. in 1856, 8,626, of whom slaves. Capital, Kingston.

CALDWELL, a post village in W N. Y. It stands in the midst of a bea picturesque region at the southern en George, is much visited by tourists, tains 1 or 2 large and favorite hotels, boat plies between it and the outlake. It contains the ruins of For Henry, and Fort George, memorab French and revolutionary wars. Po

township in 1855, 880.

CALDWELL, CHARLES, an eminent physician, born in Caswell co., N. C 1772, died in Louisville, Ky., July 9, 1 was the son of an Irish officer who ha ted to this country, and ultimately sett the subject of this sketch was born. parents remained in that remote distric labored under great educational disac but after they had removed to the sou of the state, he made such progress it that when a very young man he was to become a teacher, and took charge inary at a place called Snow Creek, foot of the Bushy mountains, and sul of the Centre institute, both in his na While instructing others, however, h neglect himself; but, assiduously pur own studies, early acquired that taste: which he ever afterward displayed. hesitated some time between the pul bar, he at last determined to abandou to choose the profession of medicine ence to either. An obscure pra bury was his first master in tl 1792 he went to Philadelpl medical classes of the university, w then sustained by the talents and 1 of Shippen, Wistar, and Rush. plied himself earnestly to both a practice, and during the yellow 1798, particularly distinguished hi ability, courage, and zeal. At 1 the whiskey insurrection, he v geon to a brigade and acc mirea neighborhood of Pittsburg, out as a was announced that the insurrection sided, the troops retired, and a mili was given by the army at wh well delivered an add ing compliment from A ar . 1795 he produced his first asserter lation of Blumenbach's "El gy," from the L 1 In Nicholas Bide

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to which he gave new efficiency by his talents and energy. In 1816 he edited Cullen's "Practice of Physic," while at the same time he filled the chair of natural history in the university of Pennsylvania. In 1819 he published his "Life and Campaigns of General Greene," the most important and valuable of all his biographial works, and soon after removed to Kentucky to fill the chair of medicine and clinical practice at the Transylvania university, Lexington. In 1820 he made a tour in Europe in order to purchase books and philosophical apparatus for that institution. In 1837 he broke off his connection with the Transylvania university, to establish in the city of Louisville a medical institute, but in consequence of a misunderstanding with the trustees, he was removed from office in 1849 by the board of managers. passed his latter days in Louisville, engaged in the composition of his autobiography which appeared after his death, and is a daguerreotype of the idiosyncrasies of the author. His princpd literary works beside those already mentioned, are "Memoirs of the Rev. Dr. Horace Holley; and Bachtiar Nameh, or "The Royal Foundling, a Persian tale, translated from the

Arabic."

CALDWELL, Howard H., a living American poet, born in Newberry, S. C., Sept. 20, 1831. He graduated at South Carolina college in 1851, was admitted to the bar in 1855, and since that time has practised his profession in Columbia. In 1853 he published a volume entitled "Oliatta, and other Poems." The chief poem of the collection is a romance of the American aborigines, and several of the others are translations. He has contributed frequently the periodicals of the South, and a new volume of poems from his pen was published in 1858. CALDWELL, REV. JAMES, an American revo-

lationary patriot, born in April, 1734, at a settlement called Cub creek, in what is now Charlotte o., Va., was killed by an American soldier, Nov. 24, 1781. He graduated at the college of New Jersey in 1759, and became pastor of the then large and important Presbyterian congregation at Elizabeth town. In March, 1763, he was married to Miss Hannah Ogden, of Newark, a lady whose tragic fate has made her name familiar to all readers of American history. During the progress of the differences between the mother country and the colonies, which immediately preceded the war, he warmly espoused the cause of the people, and by his personal influand eloquence encouraged and increased the spirit of resistance. When hostilities actu-ally commenced, he was appointed chaplain in the Jersey line, and acted in that capacity with those portions of the American army which macessively occupied that state; he accom-Panied the Jersey brigade to the northern lines, and in addition to his other duties performed those of commissary for some time. There was, probably, no other man in New Jersey whose influence with the people was so great, and to whose appeals they responded so readily and

effectively. He was consequently the object of hatred and persecution to the British and tories, and in order to avoid the dangers to which he was continually exposed he removed his family to Connecticut Farms, a small village about 8 miles further in the interior of the country. The enemy were then in possession of New York and Staten Island, whence they made frequent incursions to New Jersey, on which occasions the bell of Caldwell's church was always used to sound the alarm and arouse the country. On Jan. 25, 1780, one of these marauding parties, consisting of 600 regular troops and a large number of tories, surprised the picket guard at Elizabethtown, captured 2 majors, 2 captains, and 42 privates, plundered the inhabitants, and burned the town-house, Caldwell's church, and a private residence. It is but just to say, however, that the torch was applied to the church by a tory, residing in the neighborhood, who, when he saw the building wrapped in flames, expressed his regret that "the black-coated rebel, Caldwell, was not then in his pulpit." The detachment immediately retreated, without loss, to Staten island, where Gen. Knyphausen was in command. Having received exaggerated accounts of the recent mutiny of the Connecticut line, and of the general discontent which was said to be prevalent in New Jersey, the latter projected an expedi-tion which left the island during the night of June 5, 1780, and landed at Elizabethtown Point before dawn on the following morning. It was composed of about 5,000 regular troops, with 17 pieces of artillery, under the command of Brig.-Gen. Stirling; and it was hoped that such an imposing array would be sufficient to terrify the rebels, encourage the loyalists, and restore the Jerseymen to their allegiance. the column approached the village of Elizabethtown, it was indistinctly seen in the darkness by a sentinel, who gave a challenge which was unanswered, and he immediately fired at random into the moving mass. The shot, which ultimately proved mortal, took effect in the thigh of Gen. Stirling, who was carried back to Staten island, and Knyphausen himself took command. The march was resumed, but the alarm had been given and the Jersey regiment at Elizabethtown, under Col. Dayton, were ready to oppose their progress. Being too few in number to offer any effectual resistance, they retired in good order, skirmishing occasionally, until they reached Connecticut Farms, where they were met by the Jersey brigade under Gen. Maxwell, and some militia of the country who had hastily assembled, and a sharp action ensued. The invaders being reenforced by a second division which had just arrived from Staten island, and having the advantage of artillery, were enabled to force their way some 8 miles further on the road toward Morristown, where Washington had his camp. reaching the village of Springfield they found that intelligence of their movements had been sent to head-quarters; that all necessary ar228 CALDWELL

rangements had been made for the defence of the village; and that Washington had moved forward in person, and was strongly posted in the passes of the Short Hills, directly in the rear of Springfield and commanding the approaches to Morristown. Finding it impossible to proceed further, they commenced a retreat, in which they suffered severely from the militia, who took advantage of every tree and fence which could furnish an ambush. Irritated at the unexpected and obstinate resistance made by the Jersey troops and yeomanry, the British began to burn the houses and pillage the property of the villagers at Connecticut In one of the houses was the family of Mr. Caldwell, whose wife had retired to a back room, with her 2 youngest children-one an infant in her arms-where she was engaged in prayer, when a musket was discharged through the window. Two balls struck her in the breast, and she fell dead upon the floor. The church was already in flames, and the parsonage was about to be set on fire when her corpse was discovered by a young American officer, in the British service, who succeeded in preventing the destruction of the building, and obtained permission from the commanding officer to remove the remains to a place of greater secu-The odium which attached to the perpetration of this ruthless murder was so universally expressed, and its effect upon the popular mind was so injurious to the royalists, that they insisted it was the result of a chance shot from the cross firing of the contending parties, while the Americans declared it to be the deliberate act of a British soldier. There are, however, good reasons for believing it to be the deed of an Irishman who had been employed in the service of Mr. Caldwell, and who, for some reason, had conceived a violent enmity against his employer. Upon this occasion he joined the enemy and accompanied them on their retreat. Mr. Caldwell was on duty in Washington's camp, and, after passing a night of anxious uncertainty, he procured a flag on the following morning and went to Connecticut Farms, where his worst fears were at once confirmed.—On June 23, Gen. Knyphausen made a second incursion with about 5,000 troops. On this occasion he passed over the same route to Springfield, where a battle was fought. Though the enemy were defeated in the principal object of the expedition, they succeeded in burning the village. Among the most active in the fight was the chaplain Caldwell. There is a tradition, well authenticated, that in the hottest period of the action the wadding of a portion of the Jersey infantry gave out, which fact being communicated to Caldwell, he rode to the Presbyterian church, and hastily collecting the psalm and hymn books which were in the building, he distributed them to the soldiers with the exhortation, "Now put Watts into them, boys!" The British were finally compelled to retrace their steps, which they did with all possible rapidity, followed and harassed as

before by the Jersey militia.—In 1781 a missariat of prisoners was cetablished at 1 bethtown, and a small vessel with the prive of a flag made weekly trips between that the and the British head-quarters at New You On Nov. 24 Mr. Caldwell went to the P either for the purpose of receiving a lady , was expected as a passenger, or to execute commission for her. Finding that the ver had arrived, he went on board and soon re ed with a small package, which he was cartoward his chaise when he was hailed by Ja Morgan, the sentinel on duty, and ordered deliver the package for examination. Here that it was the property of a lady for wh had been placed in his charge; and it atures that he was really ignorant of its co-among which were the prohibited tea, mustard, and pins. The order v ed, when Mr. Caldwell turned away and wi leaving the sentinel for the purpose, it is as of returning the package to the vessel w compliance with the popular demand the sent nel was delivered to the civil authorities at was tried for the crime of murder at a conheld in the Presbyterian meeting-house Westfield, the township adjoining Elizabet town. His defence upon the trial was that I committed the act in obedience to orders # in the discharge of his duty as a sentinel. ples was unavailing; he was condemned a hanged, Jan. 29, 1782. The remains of Mr. Cal well and of his wife were interred in the grav yard of the first Presbyterian church in E bethtown, and a costly marble mo dedicated to their memory by t y of the des that town, on the 64th annive of the "soldier parson."

CALDWELL, JOSEPH, D. D., first preside of the university of North Carolina, was be at Leamington, New Jersey, April 21. 17 died at Chapel Hill, N. C., Jan. 27, 1 was educated at Princeton college, wn 1791, he pronounced the sale torv l tion. From this period till 1 he acted tutor at Princeton, but then 31 . oc which laid the foundation of any fu tion and usefulness. The humble chosen to fill the chair of principal prothe infant university of North Carolina henceforward his destinies were bound those of that institution. Under his the new university grew and flo 1804, as a proof that his services were appreciated, he was made in by the trustees. For nearly 40 y mained in connection with the unive his government of it during that long u excited the admiration of l and proved the source of its p He it was who chiefly digested educational systems, framed and laid down rules of discip trol of its alumni. In 1824 Lr. to Europe to select books for

and to procure valuable philo-In 1828 he was attacked warm filled his latter days with and which, after tormenting him __a, ultimately carried him off. Though ell's fame mostly arises from his convith the university of North Carolina, setters under the pseudonym of "Carla railroads and internal improvements, ste that he was not indifferent to the of the outside world. His most imliterary work is an elementary "Trea-Geometry," which appeared in 1822. well was an able mathematician and a u theologian, but his favorite maxim acts non verba," and it is chiefly as a action in the capacity of tutelary guar-the North Carolina university that he is EDONIA, a mountainous but fertile in the N. E. part of Vermont; area,

EDUNIA, a mountainous but fertile in the N. E. part of Vermont; area, m. The Connecticut river forms its S. dary, and several small streams within a furnish water power for a number of I grist mills. Maple sugar is produced county in greater quantities than in other in the United States. Potanah hay are the other staples. The suns in 1850 were 62,551 bushels of 96,389 of Indian corn, 218,785 of oats, of potatoes, and 186,790 pounds of There were 19 corn and flour mills, 100

15 woollen factories, 19 tanneries, 1 ery, 2 newspaper offices, 49 churches, out pupils attending public schools. we some sulphur springs, and abundance its and limestone. Organized in 1792. Danville. Pop. in 1850, 23,595. EDONIA is the name given by the Rothe northern part of Scotland, beyond

and Bodotria, the modern Clyde and which formed the boundaries of their a. It is mentioned in Tacitus, who be inhabitants, on account of their redand large limbs, to be a people from Agricola, the conqueror of Britain

was the first Roman general who came act with them; in the 6th year of his a, he penetrated with an army beyond woria, assisted by a coasting fleet; but srmined resistance of the barbarians, and also of the 9th legion, attacked by night, him to return. In the next year he advanced as far as the Grampian

, advanced as far as the Grampian routed 30,000 Caledonians, under Galchief, which bloody victory has found chief, which bloody victory has found concription in Tacitus's life of this hero.

I night the flying barbarians burndwellings and disappeared; and swon returned to the south of the aud fortified their line for the defence of province. The emperors Hadrian, and Severus, strengthened the natweet wells and ramparts against

of the Caledonian bar-

Picts and joined by Scots from Ireland. When the Romans, unable to defend Britain, left it to its fate, the inhabitants called the Anglo-Saxons (449) to their aid against their northern neighbors. The power of the Picts was broken (869) by the Scots, who gave their name to the country.

country.

CALEDONIAN CANAL, in Scotland, counties of Invernees and Argyle, connects the North with the Irish sea, extending from Murray frith through Lochs Ness, Oich, and Lochy, in the great glen of Caledonia, to Loch Eil. The total length is 60½ miles, of which the lochs compose 87½. The canal was begun in 1803, and opened for navigation about the close of 1823. The government appropriations to this work between 1803 and 1847 amounted to over

£1,200,000.

CALEF, ROBER, a merchant of Boston, died at Roxbury, April 18, 1719. He lived when the witchcraft delusion and persecution were prevalent in Massachusetts, and was distinguished by his steady opposition to the proceedings of the magistrates and ministers. He wrote a book in answer to Cotton Mather's "Wonders of the Invisible World," which he entitled "More Wonders of the Invisible World," and which was issued from a London press in 1700. His book was denounced from the pulpit and in pamphlets, and was even publicly burned in the yard of Harvard college. Ere long, however, the popular sentiment changed in this respect, and the opinions which Calef had upheld became prevalent.

OALEMBOURG, a French word for a pun, or a witticism, the origin of which is ascribed by the Germans to a Westphalian count of the name of Calemberg, who blundered whenever he attempted to speak French. According to other anthorities, the term is derived from a facetious Parisian apothecary whose name was

Calembourg.

CALENDAR is a method of numbering and arranging days, weeks, months, and years, or a mechanical contrivance for registering arrangement. The day is a natural division of time varying slightly in its length, but so slightly that a clock keeping mean or average time seldom differs 15 minutes from the time as given by the sun. Civilized nations usually commence the day at midnight, and count 2 periods of 12 hours each in the day. Astronomers and navigators since the time of Ptolemy commence the day at noon, and number the hours from 1 to 24.—The week is not a natural division of time, although 4 weeks are nearly a lunation, and many periods in the animal econmy, such as the incubation of eggs, correspond singularly with weeks. The use of the week in eastern nations from time immemorial is by some ascribed to the effect of divine command, as recorded by Moses, and by others to the number of conspicuous planets. Our common names for the days of the week are Saxon in form, but evidently were borrowed originally from some eastern nation, as the gods to whom

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each day is consecrated correspond in character to those to whom the days were consecrated by the Greeks and Latins, when they adopted the week from the East. The Greeks and Romans originally had no weeks.—The Greeks divided the month into 8 equal decades, the Romans into 8 very unequal periods. The length of the month was suggested, as the word shows, by the moon, which completes her changes in about But inasmuch as the solar year does 80 days. not consist of an even number of lunar months. the months have in most nations become fixed periods of 80 or 31 days. The length of the months in most civilized nations has been copied from the Romans. No nation has, however, followed the singular division which the Romans made in the month by means of 8 days. The first day being called the calends, and the 18th or 15th the ides, the nones were the 9th day before the ides, and the other days of the month were numbered from the next succeeding calends, nones, or ides. The day, for instance, which we call Feb. 19, they called the 11th before the calends of March.—The solar year is a natural period, formerly measured by the interval between 2 successive vernal equinoxes. If the civil year corresponds with the solar, the seasons of the year will always come at the same period. But in early times the Roman pontiffs regulated the length of the civil year so imperfectly, that in the days of Julius Casar the spring occurred in what the calendar called summer. Cæsar, with the help of Sosigenes, reformed the calendar in 46 B. C., and introduced our present arrangement of having 8 years of 365 days followed by one of 866, dividing the year into months nearly as at present. The irregularity of alternation in the months of 80 and 31 days was introduced a few years after to gratify the vanity of Augustus, giving his month of August as many days as Julius Cæsar's month of July. The additional day was given in leap year to February, by calling the 5th day before the calends of March a second 6th; whence leap year is still called in the almanacs bissextile year. This calendar of Julius Cæsar is still used in the Russian empire, and was in use in all Europe until 1582. Its error consists in making the year 3651 days, which is about 11 minutes too much, an error which has now amounted to about 12 days. Pope Gregory XIII. by a brief ordered Oct. 5, 1582, to be called the 15th, and that the years 1700, 1800, and 1900 should not be accounted leap years. This is called the Gregorian calendar.—The most intricate matter in the calendar is the ecclesiastical rule governing the mov-able feasts. The council of Nice ordained in the year 825 that Easter should be celebrated on the 1st Sunday after the full moon that occurs on or next after the day of the vernal equinox. The days of the week are denoted by the 7 leading letters of the alphabet, A being placed against Jan. 1. The dominical letter for the year is the letter which will then come against Bunday. The solar cycle is a period which re-

stores the 1st day of the year to the of the week, by means of which course find the dominical letter for and therefore tell what day of the w or will be at any given date. The l is a period which restores the new n same day of the month. The gold indicates the place of any given y lunar cycle, so that by means of it v on what day of March the full moo thus find Easter day. The Gregoria civil and ecclesiastical, was soon ado In the Protestant Catholic states. Germany it was but partially adopte and not wholly until 1774. The ch Julian to Gregorian reckoning was act of parliament in Great Britain, the 3d of the month being called
—The ancient Egyptians, Chaldeans Syrians, Phoenicians, and Carthagir began their year at the autumnal equi Sept. 22). The Jews also began their at that time, but in their ecclesiastic ing the year dated from the vern (about March 22). The beginning among the Greeks was at the win (about Dec. 22) before the time of at the summer solstice (about June Meton. The Greek astronomers h year peculiar to themselves, to the which they gave the 12 signs of The Roman year from the time of N at the winter solstice. It was not p original purpose of Cæsar to change of the commencement of the year, a tive for delaying it several days was, doubtless, the desire to make th of the reformed calendar begin with the new moon. Among the Latir nations there were 7 different dates f mencement of the year: March 1; J 25; March 25 (beginning the year n months sooner than we do, this wa Pisan calculation, and though us Spain, England, and Germany, was several states till 1745); March 25 the year nearly 8 months later th this was called the Florentine calcu was much in use from the 10th c 1745); at Easter; and on Jan. 1 (b in advance of us). In France the ye general at March 1, under the Merov Dec. 25, under the Carlovingians; an under the Capetians. By edict of (in 1564, the beginning of the year v at Jan. 1. In England, from the 1 till the change of style in 1752, the ecclesiastical year began at March it was not uncommon in writing t from Jan 1. After the change w in 1752, events which had occurr Feb., and before March 25; of the old would, according to the new arra reckoned in the next subsequent y the revolution of 1688 occurred in 1 legal year, or, as we should now

1699, and it was at one time customary to write the date thus: Feb. 168 .- The year of the French revolutionary calendar, which was instituted in 1792, began with Sept. 22. It consisted of 12 months of 30 days each, with 5 sacred days at the end devoted to festivals, and The months were called the sansculottides. divided into 3 decades of 10 days each. Every period of 4 years was termed a francique, and was terminated by 6 instead of 5 festival days. The more accurate adjustment was arranged according to the Gregorian regulation for leap year. The Gregorian calendar was restored in France, Jan. 1, 1806.—The ancient northern nations of Europe began their year from the winter solstice. In the era of Constantinople, which was in use in the Byzantine empire, and in Russia till the time of Peter the Great, the civil year began with Sept. 1, and the ecclesias-tical sometimes with March 21, and sometimes with April 1. The beginning of the Mohammedanyear is not at any fixed time, but retrogrades through the different seasons of the solar year. Among most of the peoples of the East Indies. the year is lunar, and begins with the first quarter of the moon the nearest to the beginming of December.—Among the Peruvians the year began at the winter solstice, and among the Mexicans at the vernal equinox. The year The year of the former was lunar, and was divided into 4 equal parts, bearing the names of their 4 principal festivals, instituted in honor of their 4 divinities allegorical of the seasons. The Mexicans had a year of 360 days and 5 supplementary days. They divided it into 18 months of 20 days, and had a leap year.

CALENDERING, the process of finishing coton and linen goods by passing the cloth between smooth cylinders, which are made to revolve in contact. The term is also applied to the mbsequent operations of cloth-lapping, or folding the cloth, and packing it, all which are conducted in the same establishment. The business also connected with the shipment of the goods is all considered a part of that of the calender houses. Paper as well as cloth is subjected to the finishing process of calendering, as will be described in the article PAPER. The name calender is applied to the machine comprising the rollers which smooth the woven fabrics. Before passing the cloth between them, it is essential that such as is designed for calion printing should be subjected to the singeing process, in order to remove the loose fibres or down; and it is common to subject most goods to this operation. It consists in drawing the cloth rapidly over a horizontal gas-pipe, along which numerous little apertures extend mastraight line, so that the gas, ignited, gives a long line of flame equal to the width of the cloth. Another pipe, placed over this and exhausted of air, draws in the flame through the goods as they pass between the two pipes, and the loose fibres are burned out without igniting the fabric. The movement is at the rate of about 3 feet in a second. Any sparks that may remain are

extinguished as the cloth immediately passes between 2 rubbers placed in front of the line of flame. A yellow color like that of nankeen is produced by this process, which requires to be removed by bleaching, before printing. —As the goods are received by the calenderer, they are commonly first dampened, sometimes by passing them over the surface of water. The folds and creases are thus partially removed, and the cloth is better prepared for the succeeding operations. The smoothing and polishing by the calender is similar in effect to the operation of the domestic smoothing iron, or, on a larger scale, of the mangle; but, applied to the enormous quantities of cloth turned out by the cotton and linen mills, it must be conducted with most efficient machinery. The objects to be attained are, rendering the surface of the fabric smooth and even by the removal of all wrinkles, the flattening down of all knots and other imperfections, and the spreading of the threads so as to give them a flattened form, and the texture the appearance of closeness and strength. The polish upon cotton goods called glazing, is produced by the friction they receive in this Calendering varies with the nature process. of the fabric and the purposes for which it is designed. Lawns and muslins of light texture are smoothed in light machines not heated, and with moderate pressure, there being no objection to their threads retaining the cylindrical form, and the fabric its open texture. On the other hand, the fabrics, which are to go to the calico-printer to receive the first impression by the block, require a high pressure, and sometimes to be passed twice through the rollers. But those which have already been partially colored, and are to be filled in with other colors, must not receive that stiffness of finish which will prevent the cloth being stretched one way or the other, whenever it may require slight changes of form, to admit of the exact adjustment of the grounding blocks to the outlines of the colors already applied.—The smoothing calender was introduced into Great Britain from Flanders and Holland during the persecution of the Huguenots. It has been improved in Lancashire by substituting rollers made of pasteboard disks for 3 of the 5 commonly employed in the machine, which 8 were previously constructed of wood, and were consequently liable to warp and crack with the heat to which they were exposed. The other 2 are hollow cylinders of cast-iron, constructed of metal 2 inches thick surrounding the internal cavity of 4 inches diameter; this gives them a diameter of 8 inches. The cavity admits of the introduction of a red-hot roller or of steam. The pasteboard cylinders suitable for the iron ones of the dimensions given are 2 of 20 inches diameter, and 1 of 14 inches. They are placed in a strong upright iron frame, the small cylinder in the middle and an iron one above and below it, revolving as a cylindrical smoothing iron between the 2 pasteboard cylinders which take the place

of the domestic ironing board or table with its cover of cloth. The paper rollers are very ingeniously contrived to avoid the defects of the wooden ones, and present a smooth surface to the cloth. Set like a wheel upon its axle, a. disk of cast-iron at the end of a strong iron bar is perforated with 6 holes near its circumference for as many iron rods to pass through. Circular plates of thick pasteboard, an inch larger in diameter than the intended roller, are next laid upon this disk; they are furnished with holes for the axle and the iron rods. The pile is continued to a length as much exceeding that intended for the roller as the pasteboard disks will shrink by the compression they will be subjected to. A corresponding iron plate is then set upon the other end of the axle, and the rods being passed through and screwed up, the cylinder thus formed is put in a hot apartment or stove to be thoroughly dried for several days, the screws being occasionally tightened upon the rods as the pasteboard shrinks. surface of the cylinder thus obtained is excessively hard and close. To turn it down to its proper size is a work of great labor; several men are employed upon it, and the best tools are rapidly dulled. They are necessarily of small size, slowly working down the face of the cylinder, as it revolves at the rate of only 40 or 50 revolutions per minute. When finished, it presents a hardness and polish far superior to that of wood; it also possesses great strength, without the liability of being warped or injured by the great heat to which it is to be exposed. When set in the frame, they are so arranged that they may be forced by levers or screws into very close contact with the iron cylinders. The cloth, fed from a roll placed opposite the machine, is carried over the upper pasteboard cylinder, between this and the iron one, then between this and the next below, and so on till it has been 4 times compressed and ironed, The glazing or polishing of the surface is produced by the middle pasteboard cylinder being made to revolve more slowly than the others, and consequently producing a rubbing effect of the cylinders upon the cloth. By this arrangement the former tedious operation of glazing upon a table is rendered unnecessary. A calender, contrived by Mr. Dollfus, has cylinders of sufficient length to pass through 2 pieces of cloth at once, and it is also provided with a folding machine, which receives the cloth as it comes out of the rollers, and folds it without the attention of the workmen. By running through 2 layers of cloth together, one upon the other, the threads of one make an impression upon the other, giving a wiry appearance to the surface. The embossed appearance is produced by rollers of copper, upon the face of which the design is engraved. The proper folding of the cloth preparatory to its being pressed, must, like the other operations of calendering, be carefully conducted, that the appearance of the finished article shall be perfectly neat and free from creases and blemishes of every kind.

Particular importance od of doing this, the vuject ver to make the articles appear what . and sometimes to make their real conspicuous. When the folds are or usually with muslin goods so as to their being opened in any place, like t of a book, the pieces are placed, to boards and glazed pasteboard between a powerful hydraulic press, capable ing a pressure of 400 tons. While in the parcels are corded and prepared ing immediately in bales. The cloth has been taken before the 10 upon the long measuring table, or o the cloth from one side to the other upon a graduated hooking frame, provi 2 needles upon which each fold is The labels for the cloth put up at the calendering establishments, are expr signed for the particular country to w goods are to be sent. Most of then showy pattern in blue and gold, with devices. Some of the more expensive or \$6 per 100, while the common h worth only 25 cts. per 1,000.
CALENDS, the first day of the mon

Latin calendar.

CALENTURE, or Indian SUN-STR lent fever incident to persons in hou especially to such as are natives of me perate regions. This inflammatory fe tended with delirium, during which th is often tempted to walk into the sea. i the extensive surface of the ocean to l mense plain of pleasant and refreshir green fields.

CALENZIO, or CALENTIUS, ELISEO politan poet of the 15th century, died published numerous writings in prose a elegies, epigrams, satires, fables, and which were issued under the title of (He also wrote upon penal legislation said to have been the first to propos striction of capital punishment to the

murder.

CALEPIN, a French name for a (of notes and extracts, or a common It is derived from AMBROSIO CALL Italian, who published in 1502 a Lat lexicon, which had in its time a gree tion and passed through many editic cially in Switzerland, where it was en increased by notes and by the introduadditional languages. The edition 1590-1627, is in 11 languages.

CALF, the young of a cow, or or vine genus of quadrupeds. Whatev the calf may spring from, its natura milk; coming from the mother in a v it is exactly adapted to the existing conher offspring. Milk contains materials ing bone, as phosphoric acid, lime, so muscle, caseine; for fat, butter or oil. of milk, as well as a large percen The method pointed out by

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breeders; the calf is allowed to run till weaned; but in most instances considered unprofitable, particularly the object is to secure the largest supply and its products for sale. Thousands annually slaughtered at 2 and 8 days he milk of the cow is considered fit ue meat fed to swine or fowls, the uto the tanner. This wholesale slaughter early an age might be avoided by very ans, and a large increase added to the s revenue, while the market would be with more good veal and beef, and a number of cows would be produced. dairymen have selected 2 or more cows herd for the rearing of calves, the removed from their dams when 2 sold, and placed in the pen with the -mother. Two cows, bearing at differ-. veriods, have fattened 7 calves in one season, ed the year by becoming victims o the butcher. It is necessary that numer-dam have clean, well ventilated areas, and the best quality of succulent food; summer, sweet hay, clover, green corn, or e grass, cut and carried to her, with an occa-mal feed of corn or oil meal if she and her mily are not in a thriving condition. In inter the food should consist of the sweetest hay, at least one peck of sliced roots, morn-* and evening, with meal and a little salt nkled over them. When an increase of k is desired, additional quantities of roots or made from meal, or shorts scalded and hin with water, should be fed. In Scotthe cows intended for nursing generally early in the season, about the month of v or February, when a strange calf is 1 from some of the small tenants in the Muce who have dairies. This calf is suckled ith the other by the same cow, and although be cow at first shows great dislike to the ranger, in a few days she receives it very nietly, care being taken that both are put to ck (one on each side) exactly at the same time, "tring the calves' bands to the stall, or to the of the cow, so as to keep each calf at its They remain with the cow 15 or 20 s, by which time her milk is perfectly n away. As the calves advance in age, wy eat hay, sliced potato, porridge, and other to take. By May 1, in as grass is ready, they are weaned ned out from the byre, when 2 fresh immediately put into their stalls, receive the same treatment, excepting they are turned out at 12 o'clock, after my have got their suck, to eat grass, and are rought into the byre again at evening, when he cows come in to be sucked. This set is ready to be weaned by August 1, and a ingle calf is put into the feeding pen, and the cal fattened for the butcher, the season being how too late for rearing. As these are fed off, the cows are let off milk, having each suckled calves. It is necessary to have a very steady

and careful person to attend to the suckling, which has to be done 8 times a day, viz. : early in the morning before the cows are turned out to grass, at mid-day, and in the evening when the cows come into the byre for the night, and get a little cut grass, tares, or other green food. The byre is arranged so that each of the cows has a stall about 4 feet wide, with their heads to the wall; and on the opposite wall the calves are tied up, 2 in a stall, exactly behind the cow, so that there is little trouble in putting them to the cow, and no chance of misplacing them. The fat calves have in some seasons been sold at £5 each, this being the scarcest time of year for veal." In the natural state, the cow yields milk enough to rear the calf, then ceases to give milk until the next calving. Man has bred cows for milking qualities; hence the length of time for giving milk, and the quantity given, are both greater than required for the calf; hence two evils arise: the calf, if left with the cow, is overfed; and her milking qualities are injured. For these reasons the calf should be nursed by a cow kept specially for that purpose, or reared by Robert Colt, Pittsfield, Mass., says: hand. "Take the calves from the cow, and feed them with 8 quarts of new milk twice a day for 8 months, adding, after they are 8 weeks old. a little rye and corn meal scalded, then wean off upon dry provender and grass, roots, or hay, as the season may be." Or, "Take the calf directly from the cow, put some dry fine salt in its mouth, and feed on flaxseed jelly and hay tea for 1 or 2 months, till the calf is able to eat grass. The jelly is made by boiling 1 pint of flaxseed in a gallon of water; pour boiling water over sweet hay and extract its good qualities; the 2 are then mixed together, about 1 pint of jelly being used to 2 gallons of hay tea per day, with an occasional addition of oil meal." This will do in the absence of milk, but cannot be highly recommended. Feeding on sour milk has been tried, and beeves have been produced at 1 year old of 500 lbs. Calves, when taken from cows, are usually fed with skim milk, being allowed to suck the fingers immersed in the milk until the habit of drinking is established. The milk must be given blood-warm, and may be enriched by boiled potatoes mashed, or thin mush from Indian corn meal. About 16 to 20 pints per day is the usual quantity of milk. Cold milk is apt to purge the calf; if this oc-cur, the use of 1 or 2 spoonfuls of rennet will remove the difficulty. Never overfeed a calf, or it will become pot-bellied, and permanently injured. As soon as frost occurs, pen the calves, and give sweet hay with a few sliced carrots or other roots, with a little salt. prove profitable, a calf must show daily improvement, and never suffer the least check in growth. In the isle of Jersey no calves feed from the cow. Mr. Moss, of Conn., has invented a pail with a simple gutta percha teat at the bottom. The pail is filled with liquid food, and suspended in the stall above the calf, which feeds from it as from its dam .- DISEASES: Vermin, a tablespoon-

ful of sulphur 8 mornings in succession; Diarrhoa, a little chalk, opium, and gentle cordials; Constipation, castor oil, with a little ginger. For treatment of diseases, see Youatt and Martin on cattle.

CALHOUN, the name of counties in several of the United States. I. A western county of Florida, bordering on the gulf of Mexico, and washed by the Appalachicola river on the E.; area, 464 sq. m. It has a low surface, and produces cotton, sugar, tobacco, and corn. productions in 1850 were 137 bales of cotton, 29,495 bushels of Indian corn, 80,252 lbs. of tobacco, and 2,570 of rice. There were 8 grist mills, 2 saw mills, 1 church, and 44 pupils attending public schools. Named in honor of John C. Calhoun. Pop. in 1850, 1,377, of whom 453 were slaves. Capital, St. Joseph. II. A. central county of Mississippi, formed within a few years from Chickasaw, Lafayette, and Yallobusha, and drained by Yallobusha and Lossascoona rivers. It is not included in the last census. III. A southern county of Texas, with an area of 484 sq. m., bound-ed S. W. by Guadalupe river, and border-ing on the gulf of Mexico. The bays of Matagorda and Lavacca indent its N. E. coast. The surface is generally level. Cotton, Indian corn, and sweet potatoes are the staple productions. The soil is not fertile, and timber is sparsely distributed over about 1 of the surface. In 1857 the county contained 801 horses, valued at \$17,500, and 17,833 head of cattle, valued at \$107,120. Value of real estate, \$416,720. Traversed by the San Antonio and Mexican Gulf railroad. Capital, Indianola. Pop. in 1856, 2,114. IV. A southern county of Arkansas, bounded S. W. by the Washita river, here navigable by steamboats, E. by Moro river, and having an area of about 600 sq. m. It has a level or rolling surface, and a good soil suitable for cotton and grain. The productions in 1854 were 88,135 bushels of Indian corn, 8,420 of oats, and 2,126 bales of cotton. Capital, Hampton. Pop. in 1854, 2,351, of whom 624 were slaves. V. A southern county of Michigan, drained by St. Joseph's river and the head waters of the Kalamazoo, and having an area of 720 sq. m. It has a rich soil and an undulating surface, mostly occupied by a scattered growth of white and burr oak. Sandstone and water power are abundant. The staples are grain, hay, and wool, and the productions in 1850 were 885,959 bushels of wheat, 327,544 of Indian corn, 18,779 tons of hay, and 126,991 lbs. of wool. There were 10 corn and flour mills, 8 saw mills, 4 iron founderies, 8 woollen factories, 2 newspaper offices, 18 churches, and 5,864 pupils attending public schools. The Michigan central railroad passes through the county. Organized in 1833. Capital, Marshall. Pop. in 1850, 19,162. VI. A western county of Illinois, occupying a narrow strip of land between the Mississippi and Illinois rivers, the former of which separates it from Missouri, and is joined by the latter at the S. E. border of the

county. Near the river banks the low and frequently inundated; in or ties are high bluffs and table land ravines. In the W. part are valuable. The staples are grain, hay, beef, and the productions in 1850 were 146,205 Indian corn, 8,870 of wheat, and hay. There were 3 grist mills, 2 chur 196 pupils attending public schools. Hardin. Pop. in 1855, 3,768.

CALHOUN, JOHN CALDWELL, an

statesman, born in the Calhoun sett trict of Abbeville, S. C., March 18, 1 at Washington, March 31, 1850. father's and mother's side he was Presbyterian descent. His grandfath Calhoun, emigrated from Donegal I Pennsylvania, when his father, Patronly 6 years old. This was in 17 Calhoun family, following the tide gration then setting southward along ghanies, moved to the banks of the I in what is now Wythe co., Va. The i of the Indians, consequent upon Brade feat, compelled them to a new emig again moving southward, they 1756 the Calhoun settlement, so upper part of South Carolina, and vannah river, in what is now Abbe trict. They were pioneer settlers Cherokee frontier, and were engage quent conflicts with the Indians, in rick Calhoun took a leading part. revolution broke out, he bi whig, and was exposed to g p from the numerous tories on the m In 1770 Patrick Calhoun married well, born in Virginia, but the of an Irish Presbyterian emigrant. Calhoun, the third son of his pare born just at the close of the revo struggle. He showed himself from e hood grave and thoughtful, ardent ar vering. In that remote and thinly region it was chiefly household instructed he received. He was early taught to Bible, and his parents strove, thou slight success, to impress upon his mind their own strongly Calvinisti At the age of 18 he took to reading and metaphysics with such applicati impair his health. His father died after, leaving the family in but cumstances. He continued to ressu widowed mother, laboring on the f though most anxious for an education mined not to attempt to obtain it till the means without impairing her of In his 19th year, by the persuasi brother, he recommenced his studies view to the profession of the law, not till he had arranged with that b mother to be furnished with them for 7 years. He declared sus pt for the life of a plain planter over that educated professional man. In June,

a academy of his brother-inu, a Presbyterian clergyman, cuted his studies with such zeal of Yale college. He graduated in highest distinction. Dr. Dwight, hed theologian, then president of arked, after a discussion with he origin of political power: "That talent enough to be president States." The next 8 years he be study of the law, 18 months of law school at Litchfield, Conn., then institution of the kind in the country. n to the regular course of study, he with great success his talent for exmking. He returned to his native Abbeville to complete his studies, admitted to the bar established himold homestead and commenced pracy he had made himself known, ry at that time was greatly agi-he aggressions which France and in their desperate struggle against were led to commit on neutral comine controversy with England was still more bitter by her claims to rican ships in search of British seae outrage upon the American frigate , committed under this pretext, in , had called forth a burst of indigna-1 Abbeville, as elsewhere, a public was held to express the feelings of Mr. Calhoun, then a student, was to draw up a report and resoluhese resolutions he supported in a rhich led to his election soon after te legislature. He served, however, ns, but so much to the public satishe was chosen to represent his dis-12th congress of the U.S. In May, married his 2d cousin, Floride Calhoun, he received considerable property marriage he removed from the old to Bath, on the Savannah river, distant. He appears from this time unidoned his profession, notwithstandood success in it thus far, and his spefor it.—He took his seat in congress 811, that body having been called tothe president's proclamation a month a most important one. The strugand been going on for the 8 or 4 in the ranks of the administration twoon those inclined still to promote se in favor of war against Great ust approaching a crisis. In the rs of the new congress the war I kannen a complete triumph. They had house of representatives a number gmen, of whom Mr. Calhoun was ed to force the administration into n of the war policy. The election of d in the choice of the candidate y by a very decided majority over

both the peace and cabinet candidate. Calhoun was placed on the committee of foreign relations. A report from that committee. speedily submitted, and understood to be drawn by him, distinctly indicated the policy which the majority were determined to pursue. The time had come, as the report asserted, for choosing between tame submission and resistance by all the means which God had placed within the nation's reach. By the retirement of the chairman of the committee of foreign relations, Mr. Calhoun became the head of that committee, and in that character introduced a bill for an embargo of 60 days, as preliminary to a declaration of war. President Madison having been compelled to send in a message recommending a declaration of war, Mr. Cal-houn reschoed that recommendation in a report from his committee, and followed it up by a bill declaring war against Great Britain. In his report at the next session from the committee of foreign relations, to which had been referred the papers in reference to a suspension of hostilities, Mr. Calhoun warmly justified the administration in proceeding with the war, notwithstanding the recall of the British orders in council, on the question of impressment alone. He had joined with his colleagues, Cheves and Lowndes, both young men like himself, and the former chairman of the naval committee, in urging, among other preparations for war, an enlargement of the navy. He also took decided ground against the whole system of non-importation and non-intercourse, which had been another favorite measure of the democratic party, and assisted by his votes and speeches in getting rid of what remained of it. The action of these young South Carolinians attracted attention in New England, and the idea pres-ently began to be entertained there of a coalition with South Carolina to put down the Virginia dynasty, and what in New England was denounced as its narrow and anti-commercial policy.—This feeling was a good deal strengthened by what happened afterward in relation to a national bank. The growing financial distress of the government had led early in 1814, to the suggestion of such an institution. It was reported against by Eppes, Mr. Jefferson's son-in-law, and chairman of the committee of ways and means, as unconstitutional. This objection Mr. Calhoun proposed to evade by limiting the charter to the district of Columbia, but it was not thought by the treasury department that such a bank would answer the purpose. At the next session Alexander J. Dallas, lately appointed secretary of the treasury, proposed a national bank with a capital of \$50,000,-000, \$5,000,000 in specie, the rest in government stocks; the government to subscribe # of the capital, and to have the appointment of the president and 1 of the directors, with power, also, to authorize a suspension of specie payments; the bank to be obliged to lend the government \$80,000,000, and not to be required to pay specie during the war or for \$

years after. This scheme was warmly opposed by Mr. Calhoun, who proposed to furnish the government with \$45,000,000 by means of a national specie-paying bank, wholly under private control, and not obliged to lend the government any thing. The capital of this bank was to consist of \$5,000,000 of specie and \$45,-000,000 of new treasury notes, which it was proposed to get into circulation by making them convertible into bank stock. This project prevailed in the house by a large majority. Dallas in a labored report denied that new treasury notes to any considerable amount could thus be disposed of. He dwelt also on the injustice and political danger of a scheme which might enable those federal capitalists who had hitherto held back and refused to lend their money to the government to obtain, to the exclusion of the holders of the existing government stocks, the control of a national bank with a capital 5 times as large as the old bank which the administration party had refused to recharter. These considerations staggered a part of the democratic supporters of the bill, and the federalists, who had supported Mr. Calhoun's scheme as against Dallas's now joining with Mr. Dallas, Mr. Calhoun's bill fell to the ground. Thereupon Dallas's scheme was renewed in the senate, where a bill was speed-ily passed for a non-specie-paying bank on his plan. When this bill came down to the house it was vehemently opposed by Mr. Cal-houn, and after a very hot debate was defeated by the casting vote of his colleague, Cheves, who, since Mr. Clay's departure as commissioner to Ghent, had been chosen speaker. A compromise scheme was then adopted for a bank with \$30,000,000 of capital, \$5,000,000 in specie, \$10,000,000 in stocks created since the war began, and \$15,000,000 in new treasury notes. But the great points of Mr. Calhoun's scheme were still preserved: the bank was not obliged to lend to the government, nor permitted to suspend specie payments. The senate wished to substitute the main point of Dallas's plan by vesting a power in the president to authorize a suspension, but the house refused to agree to this, and the bill having quickly passed without any such provision, it was vetoed by President Madison as inadequate to the emergency. peace which speedily and unexpectedly followed, attended as it was by great importations of foreign goods, paying the double duties imposed during the war, relieved the immediate wants of the treasury. But both the government and the country were still subjected to great embarrassments by the unequal value and depreciated state of the currency, growing out of the continual suspension of specie payments by the banks south and west of New England. remedy this evil, the project of a United States bank, which all now agreed should be speciepaying, was revived in the 14th congress, resulting in the charter of the late bank of the United States. The conduct of this project through the house was intrusted to Mr. Calhoun. He

was chairman of the committee by wi bill was reported, and he asserted years, and doubtless with truth, that his efforts the bank would not tered. He also supported the un designed to give to the domestic m which the commercial restrictions, the double duties had called into existen safeguard against foreign competition.topic now first prominently introduced gressional discussion, was that of int provements, of which the nece shown by the cost and difficulty of un during the war. The president, in message, had suggested such roads and could best be executed under the national ity "as objects of a wise and enlarged ism." He referred, indeed, to the object want of express constitutional authority, gested that any obstacle from that sour easily be removed. This idea was w up by Mr. Calhoun, and at the next m congress, by great exertions, he succee rying through the house, by the close ve to 84, a bill appropriating the bonus of and a half to be paid by the Unite bank, also all dividends upon t lions of stock held by the govern institution, as a fund for internal improve each state to be entitled to a share in penditure proportioned to its represent congress, but to be authorized also to to the expenditure of its share in state. This bill passed the senate, 20 w to Mr. Calhoun's great surprise and m tion, was cut short by the veto of the p on the ground of want of constitutions in congress to make such appropriation occurred just at the close of Madison of office (March, 1817), which also to a close Mr. Calhoun's very active term of service in the house of rep Before the next congress met, he v take a place in President Monroe - secretary of war. He now removed hi to Washington, and resided there 1 for the next 7 years. In the firm after Monroe's accession, the house rest to 75, that congress was empowered to priate money for the construction of 1 military and other roads, and of canau the improvement of water courses: and retaries of war and the treasury were dir report at the next session a list of in provements in progress, and a plan for ations to aid them. The friends of the looked up to Mr. Calhoun as their chan the cabinet against Mr. Crawford, the a of the treasury, who denied any o authority for such appropriations or money.-Mr. Calhoun found the v ment in a greatly disorganized conusome \$50,000,000 of outstandi and accounts, and the greatest c branch of service. He to speedy settlement of these

corganizing the staff of the army. ngress enacted into a law, which in force. Shortly after Mr. Calsintment as secretary of war, Gen. tained on the peace establishment s two major-generals, and appointed mand of the southern department, take the lead in person of the forces gainst the Seminole Indians. The r which he acted were drawn by Mr. len Jackson interpreted these orders cretionary authority to do as he acting also, as he afterward ala private intimation of the wishes of ration, that he should take possesda (though over this there hangs an mystery), he not only followed the ato Florida, but seized first upon St. then upon Pensacola. The Spanish otested against this violation of the ritory. Mr. Calhoun, in a cabinet d upon the subject, considering that n had violated his orders, mainexpediency of bringing him to trial is was warmly opposed by J. Q. retary of state, whose opinion pre-the president. The conduct of 1 in his Florida campaign beect of vehement discussion in cons matter of great sensibility to the

What passed in the cabinet he no authentic means of knowman extract of a letter which ap-Nashville newspaper, he was led to t while Mr. Crawford, the secretary y, had attacked his conduct, Mr. in joined with Mr. Adams in vinditen or 11 years after, as we shall overy of what had really occurred ous influence, not only on Mr. Calsonal relations to the general, then the United States, but on his politiand prospects. The question of the ythe president of the Missouri combeing brought before the cabinet, hald the hill the heart with the president of the president of the president of the Missouri combeing brought before the cabinet, hald the hill the heart states.

held the bill to be constitutional, and of a power in congress to proigh he was of opinion that such proraid remain in force only while the condition lasted, and would not be on any state which might be created 1 territory.-Shortly after the comof President Monroe's second term 1821, the question of the successorone of leading interest. Mr. Cal-was mentioned among others. He 1, especially in Pennsylvania, as a broad views, above mere local or influences, and disposed, on the internal improvements and other A national importance, to a liberal n of the power of the general gov-Mr. Crawford was also a candidate idency, and the favorite of the Vir-But the military exploits of

Gen. Jackson, also brought forward as a candidate, made such an impression on the popular mind in Pennsylvania, that the friends of Mr. Calhoun judged it expedient for them to withdraw his name and to support Jackson instead. Thereupon Mr. Calhoun ceased to be a candidate for the presidency, and contented himself with standing for the vice-presidency. As between the presidential candidates, he assumed a position of neutrality, and as the ability with which he filled the office of secretary of war was generally admitted, he obtained nearly the whole of the Adams and Jackson votes, with some of those for Mr. Clay, and was thus elected by a large majority. Upon giving up his office as secretary of war, he removed his family to Pendleton, now Pickens district, in the extreme northern angle of South Carolina, to an estate called Fort Hill, which had descended to Mrs. Calhoun from her mother, and which continued to be his residence for the rest of his life. Immediately after the choice of Mr. Adams by the house of representatives, through the support of Mr. Clay, a coalition was entered into between the supporters of Jackson and Crawford to oppose the administration of Mr. Adams, and when the election drew near, to support Jackson as his successor. this combination Mr. Calhoun, though he had been supposed to prefer Adams to Jackson, entered warmly, and became one of its chief leaders. During the whole of Mr. Adams's term of office, Mr. Calhoun, though debarred by his position as vice-president from any active part in congress, gave his countenance and support to the opposition; and in 1828 he was reelected vice-president on the Jackson ticket, receiving all the votes cast for Jackson, except those of Georgia.—The tariff question had for some years past been a leading topic of public interest. Upon this subject there existed a very serious difference among the supporters of Gen. Jackson. The middle states were at that time almost unanimous for a protective tariff, while the southern and especially the cottongrowing states were for free trade. Mr. Calhoun was the head of this free trade section of the party, while Mr. Van Buren, then a member of the senate. from New York, was conspicuous on the other side. It was by his management and his votes that the tariff bill of 1828 was so amended as to be carried through congress, contrary to the expec-tation which Mr. Calhoun and the free traders had formed, that by adhering to certain provisions desired by the middle states but disagreeable to the shipping interest of New England, Mr. Van Buren and other middle state senators would keep the bill in a shape to be defeated by the combined vote of New England and the South. Mr. Eaton, a senator from Tennessee, supposed to represent the feelings and opinions of Gen. Jackson, cooperated with Mr. Van Buren in this movement, which led Mr. Calhoun to doubt whether the general could be relied upon to bring the protective system to an end. Accordingly he began to cast about for other

means. He turned his attention to the sovereignty of the states, and from being charged with being too national, soon after fell under the accusation of pushing the doctrine of state rights to extremes. Building on the Virginia and Kentucky resolutions of 1798-'9, he propounded the doctrine of nullification, that is to say, the right of each state to prevent the execution within her limits of such acts of congress as she might judge unconstitutional. This doctrine he embodied in an elaborate paper, prepared in the summer of 1828, which being put into the hands of a committee of the South Carolina legislature, and being reported to the house with some softening modifications, was, though not adopted by it, ordered to be printed, and became known as the "South Carolina Exposition." The original draft of this document, in which the whole course subsequently taken by South Carolina is clearly shadowed forth, may be found in vol. vi. of Mr. Calhoun's collected works. At the next session of congress, the first under Gen. Jackson's administration, this doctrine of nullification was brought forward in the senate of the United States by Mr. Hayne of South Carolina, in the speech to which Mr. Webster made his famous reply, and in which, though he answered Mr. Hayne, he struck through him at Mr. Calhoun, who was supposed, though not then certainly known, to be the father of the doctrine. Meanwhile there had occurred a great struggle for influence and predominance with Gen. Jackson between the advocates of the tariff and of free trade. Mr. Van Buren had been appointed secretary of state. Two of Mr. Calboun's friends had seats in the cabinet, and a fair share of the other offices was given to that side; but their influence with the president was not so predominating as they had hoped, and the idea was soon started among them of superseding Gen. Jackson at the end of his first term and electing Mr. Calhoun in his place. This idea was not agreeable to Gen. Jackson, and things tended fast toward a rupture. Personal alienation soon followed. Gen. Jackson had already sought and soon after obtained a statement from Mr. Crawford of what had occurred in Mr. Monroe's cabinet on the subject of the Seminole war. This statement subject of the Seminole war. he transmitted to Mr. Calhoun, who admitted its substantial correctness. Thereupon Gen. Jackson concluded, from this in conjunction with other circumstances, that Mr. Calhoun had been at the bottom of the congressional attacks upon The next step in this political schism was the establishment at Washington of the "Globe" newspaper, with a design to supersede the "Telegraph," which had been always under the influence of Mr. Calhoun, to whom it still adhered. Early in 1831, Mr. Calhoun published a pamphlet with a preliminary address to the people of the United States, containing a body of correspondence in relation to the Seminole affair. But though sustained by the "Telegraph" and by a few members of congress and a small section of the Jackson party, he was not

able materially to diminish the influence of the president, who so to reconstruct his cabinet, Mr. (being requested to follow the example ing set by Mr. Van Buren. Mr. V was appointed minister to England, ensuing session of congress, by a contween the old opposition led by Clay ster and Mr. Calhoun's friends, the tion was rejected, Mr. Calhoun pres twice upon ties voting for the rejective rejection of Mr. Van Buren led to nation and election to the post of ident; whereupon, without waiting expiration of his term, Mr. Calleon being elected to fill the seat in t which Mr. Hayne had vacated to bec ernor of South Carolina. In the 1831, shortly after the reconstruction son's cabinet, Mr. Calhoun had put address on the relation which the general government bear to each otl address he had maintained the 1 states to judge of infractions of the wa and in such cases to protect themse insisted that the general recognition o trine would of itself, in a great sede the necessity of its exercise, uy a on the movements of the general gr that moderation and justice so essen mony and peace in a country so ex ours. The greater part of this addre cupied, however, in advocating the side of the tariff question, and in ur congress to take occasion from the p of the national debt to reduce the r the level of expenditure, abandoning tempt at protection beyond that whi be incidental to the collection of such a But no attention was paid to this adv new tariff of 1832 was as protective one. On the application of Governor of South Carolina, Mr. Calboun now to him a long and elaborate letter is of his doctrine of state rights, and of tical efficiency. It was at once dete act upon this doctrine, and the same l which elected Mr. Hayne governor a Mr. Calhoun in the senate proceeded t ize a state convention, according to set forth in Mr. Calhoun's original d "South Carolina Exposition." Thu tion had met, and had passed an to go into effect on Feb. 1, to nullify of 1828 and 1832; and when Mr. took his seat in the senate, Dec. 1 legislature was again in session en to carry out this nullifying ord president on his part had issued a tion, entreating the people of So to reconsider their position, and his intention to sustain the laws of States by force if necessary. He am congress a special message calling tional legislation to aid him in collection of the revenue. I

ted by the judiciary committee by Mr. Webster, but stigmatized its as the "force bill," and very

by Mr. Calhoun and his friends
He also introduced a series of
the powers of government, which
in an elaborate speech, Feb. 15,
ort of the right of nullification,
aken in connection with the power
the constitution by the consent of
of the states, amounted, as Mr. Called in this speech, to an appeal in
as from the general government to

s from the general government to selves, to be decided by a three-Though Mr. Calhoun and Mr. t at this time on speaking terms, was consulted through a third par-Clay's compromise tariff of 1833, of which just at the close of the inted the impending collision be-Carolina and the general governreed to accept it as an arrangement ontroversy. It provided in fact for duction of the revenue, and an of the protective system at the ars. He spoke and voted for it, unwillingly as to some of its nome valuation clause especially. d voted against Mr. Clay's bill, same session, but defeated by the eto, for distributing among the ceeds of the public lands.—The set-, tariff question was speedily follownoval by the president's order of posits from the bank of the United echarter of which had the year defeated by his veto. In the vioin congress, as well as the country, out of that removal, Mr. Calhoun Messrs. Clay and Webster against ation. In a speech of great energy Mr. Clay's resolutions, condeme removal of the deposits, he acssident of attempting to seize on f congress, and to unite in his own vord and the purse. In his view truggle between a congressional 1 executive bank, for such was which he regarded the league of ich the deposits had been transhat view he sided with the oppoh had it been a question, as he nself, of divorcing the government m banks, he should have hesitated

nd on the side of the banking
he considered very defective
In supporting these resolutions
however, to join in denouncing as
the president's removal of Mr. Duoffice of secretary of the treasury,
fused to remove the deposits, and
nent of Mr. Taney in his place.
be only an abuse, not a usurpaand on that point obtained from
addification of his resolutions. In a
. Webster's bill to continue the

bank for 6 years, giving up the monopoly and some other matters to which objection had been made, Mr. Calhoun argued in favor of a recharter for 12 years. He took the ground that the currency was in a disordered condition produced by the banks, but from which it could only be extricated by bank agency. A national bank was a necessary agent, as he expressed it, "for unbanking the banks," to an extent at least sufficient to restore a safe currency, which purpose he proposed to accomplish by gradually getting rid of bank notes under \$20. He joined with Mr. Webster against Mr. Clay in supporting Mr. Benton's project of raising the relative value of gold and silver to the Spanish standard of 1 to 16. He also warmly supported against Mr. Clay Mr. Benton's bill for branch mints.—The bank controversy led to an amalgamation of the national republican opposition, so called, the late supporters of Mr. Adams's administration and present friends of Mr. Clay, with that fragment of the Jackson party which, on state right grounds, had followed Mr. Calhoun out of it, but without going the length of nullification. This combined opposition took the name of whigs, assumed by them as indicative of their opposition to executive usurpation. The South Carolina nullifiers—an appellation often reproachfully used, but which Mr. Calhoun did not hesitate to apply to himself-still continued a body by themselves, to which he served as chief; for while cooperating for the next 4 years with the whigs, he declined to be classed as of their number. In reference to this subject he declared, in one of his speeches, that he had voluntarily put himself in the very small minority to which he belonged to serve the gallant state of South Carolina, nor would he turn on his heel to be placed at the head of the government. He believed that corruption had taken such a hold of it, that any man who attempted reform would fail to be sustained. -The next session witnessed the commencement of those discussions on the subject of slavery, which have since occupied so much of the public attention. The steps taken toward the abolition of slavery in the British colonies, and the preceding and attendant discussions in that country, had led to the formation of the American anti-slavery society, which displayed its zeal in getting up petitions to congress for the abolition of slavery in the territories and the district of Columbia, and in the wide distribution, for which purpose the U. S. mail was largely used, of tracts and papers denunciatory of slavery, many of which were sent to the southern states. The arrival of these documents in the South happened to be coincident with a slave insurrection in Mississippi, and also with the nomination of Mr. Van Buren to the presidency by a convention of the democratic party held at Baltimore. Very loud complaints were at once raised against this proceeding, as tending, if not intended, to excite the slaves to revolt. Mr. Van Buren's nomination, though favored by Gen. Jackson, had been

warmly opposed by a large southern section of and control the destiny of the the party, which, in consequence, secoded and nominated as their candidate Judge White of Tennessee. The existence of this northern antislavery agitation was strongly urged in the southern states as an objection to voting for a northern candidate for the presidency. Van Buren's political friends in the northern states, by way of relieving their candidate and themselves from any odium on this score, had joined with the mercantile interest in the northern cities in loudly denouncing the abolition-It was under these circumstances that the president referred to the subject in his annual While testifying to the general feeling of indignant regret which the proceedings of the abolitionists had aroused at the north (to be no doubt followed up by legislation if needed), he referred to the post office as specially under the guardianship of congress, and suggested a law to prohibit, under severe penalties, the circula-tion in the southern states, through the mail, of incendiary publications intended to instigate the slaves to insurrection. Mr. Calhoun moved the reference of this part of the message to a special committee, and after some opposition from administration senators, who preferred the post office committee, the motion was carried, and Mr. Calhoun was appointed the chairman. He soon brought in a report, and a bill along with it, subjecting to severe penalties any postmaster who should knowingly receive and put into the mail any publication or picture touching the subject of slavery, to go into any state or territory in which the circulation of such publication or picture should be forbidden by the state This report, starting with the doctrine that the states were sovereign as to each other, bound together only by compact, and that the right of internal defence was one of their reserved rights, proceeded to argue that it belonged to the states respectively, and not to congress, as the president's message had assumed, to determine what publications were to be prohibited. The objection taken in the message to the publications in question had been that they were intended to stimulate the slaves to insurrection. Mr. Calhoun's report went far beyond that. It principally objected to these documents, that their avowed object was the emancipation of the negroes, a measure which involved not merely a vast destruction of property, but what was of infinitely more consequence and danger, the overthrow of the existing relation between the two races inhabiting the southern states—the only relation, as the report contended, compatible with their common happiness and prosperity, or even with their existence together in the same community. Social and political equality between the two races was impossible. To change the condition of the Africans would put them in a position of looking to the other states for support and protection; it would make them virtually the allies and dependents of those states; thus placing in the hands of those states an effectual instrument to destroy the influence

union. The object aimed at by the was the destruction of a relation ea peace, prosperity, and political the slaveholding states. The were organized societies, and press, which strove to promote t view, by exciting the bitterest an hatred among the people of the no ing states against the citizens and the slaveholding states. Such a tended to the erection of a power party, the basis of which would against the slaveholding states, as the necessary consequence would b lution of the union. It was, the merely the right of the southern stat those publications, it was also the northern states, within which the c nated, at once to arrest its further duty which they owed not merely whose institutions were assailed, union, the constitution, and themsel report, as well as in his speech in the bill, Mr. Calhoun drew an al ture of the numbers and zeal of ti ists, and of the danger to which th exposed from their machinations. that the obligation resting on the no to put a stop to these proceedings we fail to be fulfilled. He had not mucl from congress, but he saw the safety in "the doctrine of state interp into successful practice on a rec-The bill, though helped along a Buren's casting vote, failed on the f to 19. With respect to petitions f tion of slavery in the territories and of Columbia, Mr. Calhoun held tha to be rejected altogether. He took that congress had no jurisdiction o ject of slavery, in whatever form presented—no more power over it is of Columbia than in the states. however, decided to receive the p then to reject their prayer. On thi position Mr. Calhoun refused to ve still voting against Mr. Clay's distribution among the states o ceeds of the public lands, he to tive part in favor of the bill for with the states the large acci plus of public moneys, the acce which as a "corruption fund" he a mented. The victory of San Jac introduced into congress the q nizing the independence of Te. declared himself not only in favor of the simultaneous reception of Te union. On the question of the Michigan, he denied the power of confer on aliens the t of v r the nounced as revolution ple of Michigan in forms Or Lucture constitution without w. for of congress. He

rinciple assumed, as he conceived, in ill for admitting Michigan, that the nere numerical majority was parahe authority of law and constitution. ion with this subject he took occaress to Mr. Van Buren, lately elected esidency, but still presiding in the emphatic condemnation of the "odiachine" to which he owed his noml election, as the commencement of gerous change, which threatened to he authority of law and constitution ts of a party caucus. Mr. Calhoun had posed Mr. Benton's resolution to exthe journal of the senate the censure lent Jackson for removing the pubs from the U.S. bank. He veheounced it now at the moment of its s plain violation of the constitution. ized the vote in favor of it as origi-"pure, unmixed personal idolatry, a evidence of a spirit ready to bow t of power." He had for some on bad terms with its mover, and 1 of him with great asperity. spected, he voted with Messrs. Clay er against the confirmation of Mr. ief justice of the United States. The nulation of public money in the dehad led to extensive purchases of , by means of money borrowed from s, which purchases by increasing the iey on deposit led to new loans and The president, just after the e late session of Congress, had atcheck this speculation by issuing a cirto the land offices to receive nothing d silver in payment for public lands. n joined with the opposition in denis circular as illegal and unconstitu-

he declined to concur in the measw to get rid of it, principally because
admit the president's power to iser. Another administration measure,
whave in view the checking of land
was a bill to restrict the sale of the
sual settlers in limited quantities.
n opposed this bill as really intended
efit of the speculators who had alloaded themselves with lands, and
rest it therefore was to restrict furases. In the course of his speech he
these speculations as having been

d by the action of the government nown the national bank and placing money in banks arbitrarily selected cutive, and he charged that high ofovernment and persons closely conthe president had used these deinstruments of speculation in the
ls. What he said on this subject was
by President Jackson as a personal
him, and he addressed an imperious
Calhoun, calling upon him either

or to bring his charge before the representatives as the basis of an im-

peachment. Mr. Calhoun read this letter in the senate. He spoke of it in very severe terms as a breach of privilege, and an attempt to intimidate, and proceeded to repeat what he had said: that many in high places were among the speculators in public lands, and that even an individual connected with the president himself (one of his nephews whose name he now gave) was a large speculator. He soon after brought forward a plan for the cession of all the public lands to the states in which they lay, to be sold by them at graduated prices extending over a term of 35 years, the states to bear the expenses, and to pay over to the general government a third of their receipts. But this proposition, denounced by the administration side as a bid for the favor of the new states, received only 6 votes. Mr. Calhoun renewed at this session his attack upon anti-slavery petitions, insisting that they must be rejected, and that the abolitionists must be silenced, and that not by letting them alone, but by prompt and efficient measures, or the union could not continue. He refused to admit even by implication that the existing relations between the two races in the slaveholding states was an evil. He held it to be a positive good, and developed a theory on this subject which has since obtained a wide currency and acceptance. Not only was it a good morally and economically, it formed, so he maintained, the most solid and durable foundation on which to rear free political institutions. opposed with earnestness the resolution appropriating \$30,000 to purchase the Madison papers, as not authorized by the constitution. admitted in this speech that when a young man, and at his entrance on political life, he had inclined to that interpretation of the constitution which favored a latitude of powers; but experience, observation, and reflection had wrought a great change in his views, and above all the study of the argument of Mr. Madison himself in his celebrated resolution of 1798.-Before the next session of congress a great financial crisis occurred, which Mr. Calhoun had foreseen, and had foretold as a consequence of the monetary policy pursued during Gen. Jackson's second term. Shortly after Mr. Van Buren's inauguration, all the banks, the deposit banks along with the others, stopped specie At the extra session which commenced in September, President Van Buren re-commended the policy of discontinuing the use of banks as the fiscal agents of the government. He proposed the custody of the public money by officers specially appointed for that purpose, and the exclusive use of coin on the part of the government. Mr. Calhoun, separating from the whigs, with whom he had acted in the struggle on the bank question, gave energetic support to this new system of policy. He did the same at the ensuing regular session. This created on the part of his late allies, who in the close divi-sion of parties could ill spare his vote, strong feelings of personal resentment. Mr. Clay, in replying to Mr. Calhoun's speech on the inde-

pendent treasury bill, not only taunted him with desertion, but made his whole political career the subject of one of those invectives in which he so greatly excelled. Mr. Calhoun replied (March 11, 1838); Mr. Clay answered on the spot, and Mr. Calhoun rejoined. This contest abounded with exemplifications of the different kinds of oratory of which each was master; on the one side declamation, vehement invective, wit, humor, and biting sarcasm; on the other, clear statement, close reasoning, and keen retort. These speeches, apart from their rhetorical merits, are of high historical value, from the light they throw upon the secret history of the compromise of 1833. Mr. Calhoun laid great stress upon his, as being the vindication of his public life. In one of his replies to Mr. Clay he declared that he rested his public character upon it, and desired it to be read by all who would do him justice. He did not confine himself to defend, but retorted blow for blow. Some sharp passages also occurred between him and Mr. Webster. Previous to this debate he had been involved in another, in which he had almost the whole senate upon him. It was equally the policy of both the political parties to keep the slavery question out of congress, as a subject upon which it was very difficult to speak or act without offending either the North or the South. With this intent, both houses had adopted rules, the result of which was that all petitions and memorials on that subject were at once laid upon the table, without being read or debated. The northern whigs had indeed voted against this, contending that all petitions ought to be re-ceived and referred to their appropriate committees, but still they were as well satisfied as their opponents to avoid or escape debate. Mr. Calhoun did not sympathize in this feeling. Unlike the leaders of the two great political parties, he had no friends to be placed in an awkward predicament, nor any apprehensions of compromising himself. He had already declared his conviction that slavery was a pos-itive political and social good. It appears itive political and social good. It appears by a letter of his written in 1847, to a member of the Alabama legislature, and published since his death, that he was from the beginning in favor of "forcing," as he expressed it, the slavery issue on the North, believing that delay was dangerous, and that the South was relatively stronger, both morally and politically, than she would ever be again. Not discouraged by the failure of the South, and even of his own state, of which he complained in the letter above referred to, to back up sufficiently his former attempts, he had offered a series of resolutions having the same object in view. The chief debate was on the fifth, which declared that the intermeddling of any state or states, or their citizens, to abolish slavery in the territories or the district of Columbia, on the ground that it was immoral or sinful, or the passage of any measure by congress with that view, would be a direct and dangerous at-

tack on the institutions of all the slav states. Mr. Clay moved as a substi resolutions, one applying to the d other to the territories. omitted all reference to the moral or character of slavery. For "interm they substituted "interference." The of slavery in the district was prone violation of the faith implied in the c Maryland and Virginia, and its abolita territory a breach of good faith tow inhabitants who had been permitted tle with their slaves therein, and, in bo a ground of just alarm to the slav states, tending to disturb and endaunion. Mr. Calhoun, though not favo amendment, perceiving that the set go no further, voted for it. In the c this debate he stated, in reference to souri compromise, that when it was was in favor of it, but that he had si led entirely to change his opinion, and t it as a dangerous measure. He had on Mr. Randolph's opposition to it as to: promising, too impracticable, but was a satisfied that if the southern memb acted and voted in the spirit of Mr. R abolition might have been crushed for the bud. He rejected with scorn chanan's proffer to support the inde tion, with a view to soothe and a feelings of the South. The South v collected, and could take care of hen was anxious, and such was his object ing those resolutions, to present some ground on which the reflective and pa every quarter of the union might rally the approaching catastrophe—an c which the North was at lea as ested as the South. To new cl him by Mr. Clay, of being a partisant of the istration, he indignantly replied that h partisan of any man or any: supported the constitutiona u accorded with his principles and views and he stood prepared to oppose or su the same ground, other measures whic ministration might propose. It was, his fortune to stand in the senate al no other guide but God and his conscie sought neither office nor popular fa also denied explicitly any connection knowledge of the existence of any par at disunion. On the contrary, he wa to preserve the union, by opposing in oppression against the weak posed section of it, in which it was cast. In a subsequent speech on the the salt tax, he insisted that the union more in danger from consolidation dismemberment, and that South striking the blow which led to the o of 1833, aimed not to destroy but to the union, an object to which that blo sentially contributed by brit system to the ground.—Ha

ne leading measures of the adminis-. Calboun called upon Mr. Van Buewed that personal intercourse which rears been suspended. The plan of the treasury from the banks, which in the 25th congress, succeeded in nd to that success Mr. Calhoun esentributed. The denial by congress it of petition having become a sub-I complaint, Mr. Calhoun, in a speech ic, insisted that the right of petition mportant in despotic governments, een superseded in the United States t of suffrage and the practice of inwhich practice, however, he did not have any constitutional or rational e right of petition had degenerated is of assault upon others. He veheposed Mr. Clay's proposition to renti-slavery petitions and to argue the he petitioners. To consent to argue would bring down the high moral South, and would do infinitely more than it could do good to the North. 1 both the preëmption and graduaproposed by the administration, bution of the proceeds of the pub-

mong the states, favored by the op-As a substitute, he again brought scheme of ceding the public lands

He gave his support to Mr. Van candidate for reelection, and induced 'South Carolina to vote for him. To es brought forward by the whigs on lived accession to power, consequent efeat of Mr. Van Buren, he gave his position, attending, for the first time each with Gen. Jackson, the private the democratic members. He dein elaborate speech, the veto power ittack made upon it by Mr. Clay, in e of President Tyler's veto of the artering a United States bank. He the tariff of 1842 as not only a vioe compromise agreed upon in 1833, details, exceedingly oppressive, and umstances of its enactment worse the tariff of 1828. The Webstertreaty with England he voted for, ed both the clauses in relation to the f Maine and those which referred ression of the slave trade. He closed on this subject with an earnest vindie policy of peace. On the same prinosed the bill for the occupation of Org also that in a hostile contention for on, Great Britain, by means of her in the East, and her lodgment and on the coast of China, would have advantage of us. We had but to vith the progress of our population, rold be occupied for us by advenlers; or should there be a struggle, or our benefit, as we were constantly vely stronger. He therefore advo-

pject, the policy of a "masterly

inactivity."—With March 4, 1848, Mr. Calhoun's senatorial term came to an end. His two great rivals had previously withdrawn from the sen-ate, Mr. Webster by accepting a seat in the cabinet, and Mr. Clay by resigning. Mr. Calhoun had declined a reelection, and did not appear in the next congress. This retirement was per-haps prompted by the fact that he had been brought forward by his friends as a candidate for the democratic nomination for the presidency, to which party he now considered himself to belong. But though his voice and vote in the senate had been willingly accepted, he still remained an object of suspicion and dislike to that large section of the party over whom, or at least its leaders, Mr. Van Buren retained a predominant influence. Instructions having been given to a majority of the delegates to the approaching nominating convention to vote for Mr. Van Buren, Mr. Calhoun, in Feb. 1844, ad-dressed a letter to his political friends, severely criticizing the principles on which that convention was to be constituted, and refusing, on that ground, to allow his name to go before it. This letter appears to have been written with a view to another convention at New York, toward which some steps were taken, but which was not carried out. Meanwhile, Mr. Calhoun, toward carried out. Meanwhile, Mr. Calhoun, toward the last of March, 1844, was unexpectedly called by President Tyler (who was a candidate also for the nomination of the democratic convention) to fill the place of secretary of state. From that office Mr. Webster had been ejected as preparatory to a negotiation for the annexation of Texas, and it had again become vacant by the sudden death of Mr. Upshur. The latter had already set the negotiation on foot, and, in fact, had nearly arranged informally the terms. The Texans had, however, insisted, as preliminary to a formal treaty, upon a pledge that if, pending its negotiation or before its ratification, they should be invaded by Mexico, with which country an armistice had been arranged, the army and nawy of the United States should be employed to defend them. This pledge, given by the American minister in Texas, President Tyler had refused to ratify, on the ground that it exceeded his constitutional powers; but as the Texan commissioners positively refused to treat upon any other terms, Mr. Calhoun renewed it. It took but a few days to put the treaty in form, and immediately upon its signature, which took place on April 12, detachments of the army and navy were sent to the frontiers of Texas and the coast of Mexico. The ground of the invitation extended to Texas by President Tyler to renew her application, already 8 times rejected, for union with the United States, was the apprehension of interference on the part of the British government, to procure the abolition of slavery in Texas, as a step toward its abolition in the United States. The facts on which these apprehensions were based had first been brought to the notice of President Tyler through the agency of Mr. Calhoun, who was thus the real author of

the annexation movement. Lord Aberdeen, in disclaiming on behalf of the British government the special facts alleged, or any secret plot for the abolition of slavery in Texas, or any disposition to resort either openly or secretly to any measures which would tend to disturb the peace and tranquillity of the slaveholding states, or the prosperity of the union, admitted however at the same time, as a thing well known both to the United States and everywhere else, that Great Britain desired and was constantly exerting herself to procure the abolition of slavery throughout the world. In replying, shortly after the treaty was concluded, to this despatch, Mr. Calhoun took the latter admission as an admission also that the British government was laboring to procure the abolition of slavery in Texas, and as having justified on the part of the United States, as a necessary act of self-defence, the treaty of annexation just concluded. The Mexican minister at Washington had given repeated notices that the signature of a treaty of annexation would be regarded by Mexico as an act of war. The treaty, and along with it a copy of Lord Aberdeen's despatch and Mr. Calhoun's reply to it, was sent to the American minister at Mexico, with directions to disavow any disrespect to that country, or indifference to its honor or dignity, and to represent that the efforts of Great Britain to abolish slavery in Texas—which, if accomplished, would lead to a state of things dangerous in the extreme to the adjacent states and the union itself—had compelled the United States to sign the treaty of annexation without stopping to obtain the previous consent of Mexico. The disposition, however, was expressed to settle all questions which might grow out of this treaty, including that of boundary, on the most liberal terms; and the minister was privately authorized to tender Mexico by way of peace offering and indemnity as much as \$10,000,000. On the day of the date of this letter (April 19) the treaty was sent to the senate, where, after a warm debate, it was rejected by a vote of 35 to 16. Previously, however, to this rejection, the treaty had had the effect to defeat Mr. Van Buren's nomination by the democratic convention. as well as Mr. Clay, the candidate of the whigs, had avowed himself opposed to immediate annexation, on the ground that it was equivalent to war with Mexico. In consequence of this avowal Mr. Van Buren, though voted for by a majority of the convention, failed to obtain the two-thirds vote which the rule of that body required, and eventually Mr. Polk was nominated. Mr. Polk went into the canvass as the avowed advocate of immediate annexation, and the election having resulted in his favor, he became very urgent to have the matter acted upon by congress before his accession to office. At the ensuing session, joint resolutions were introduced for receiving Texas into the union. These resolutions could be carried through the senate only by annexing an alternative provision for a negotiation to be opened on the

subject with Texas and Mexico (to act under either provision deem best), and by means of a pr Mr. Polk that he would act under provision. In this, however, he pated by Mr. Calhoun. Within 8 the passage of the resolutions, a last day of President Tyler's term he despatched a messenger to Te1 her in under the first provision. did not see fit to recall this mess reasonable to suppose that the n sent with his approval. Mr. (101 engaged in negotiations with un the subject of Oregon, would have a and expected to retain his position of state. Though not included cabinet, he was offered the place of England, but declined to accept it. however, retire to private life. South Carolina senators resigned make room for him, and at the r (Dec. 1845) he reappeared at Wash senator. In the violent debate at 1 on the Oregon question, which the involve a war with Great Britain, he himself the decided advocate of com peace. He deprecated war not merely and slaughter it would involve, but for the social and political changes would be attended, especially the inc power of the federal government. question was peacefully settled. The sy pending with Mexico ended in wi the Mexican government had at first ly rejected the advance toward a made by Mr. Calhoun, they had: sented to receive a minister, a that, had an arrangement been se skilfully sought, it might have bee The great difficulty was not the of the government, but the unpoi the people of any concession, which fore dangerous to the stability of a ment that might venture to con-Without waiting for the Mexican pe come reconciled to a treaty, the pi dered the American troops in Tex possession of the disputed territory of bank of the Rio Grande. When icans opposed by force this occur president informed congress that or had been invaded and that war commenced by the Mexicans, and that body to recognize its existenc vide for its prosecution. Mr. Call against the bill introduced for the but as the case was hope cord his name against it. He v terly opposed to the war th as unnecessary and un Authu: the American forces unv the northern provinces of in his speech on the 8 1 the policy of abstaining £ He proposed to hold

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as a means of forcing the Mexicans ne line of occupation which he recombing nearly coincident with the afterward obtained, except that it in a peninsula of Lower California. In he declared himself very strongly y attempt upon the independence of the absorption of her inhabited terricalhoun's opposition to the Mexican down upon him two severe attacks on the senate. In answer to Mr. Turney, ntly repelled the charge of ambitious He was not, he said, an aspirant for and never had been. At his time

, and never had been. At his time residency was nothing. He would not nless it came to him by the voice of the people, and then only from a sense of e position was respectable, but there is infinitely more so. He had rather be

lent senator, devoted to the good of y, than to be president of the United there as presidents of the United States for many years past. What was wanted things in the public men of America at it was he who had plunged the nahe Mexican war, he accepted the impubeing the author of the annexation of the insisted that the responsibility for belonged to the president, who had he constitution by marching troops n authority into the disputed territory, collision thus brought on had forced

collision thus brought on had forced or recognize as a fact a war which could never have been induced to deto commence.—The Wilmot proviso y territory acquired from Mexico, slavible prohibited) having been brought in the house as an amendment to the bill, and this proviso having been

by resolutions adopted by the won both political parties in the legismany of the free states, Mr. Calhoun ned forward as the leader and chamveholding interest. He intro-

r resolutions, in which, starting principle that the United States are tates united, and that the territories int property of those states, he denied

had power to make any law our cirectly or indirectly deprive any ta full and equal right in this common; and that any law operating to precious of any of the states from with their property into any of the would be a violation of the constiwould tend directly to subvert the vote was taken in the senate upon unitions, but their doctrine, so far as the exclusion of slavery from the tersince been fully sustained by conrepeal of the Missouri compromise and by the supreme court of the in the Dred Scott case. Mr. Calad these resolutions, not only in 2 senate, but in a speech delivered

shortly after the adjournment, March 9, 1847. at a meeting of the citizens of Charleston. He maintained in these speeches that the slaveholding states were the conservative balance of the union, and that it was essential to their own safety and that of the union that they should continue to have at least an equality in the senate, an equality to be maintained at all hazards. He stated in his speech on offering these resolutions that, though he had always considered the Missouri compromise line a great error, surrendering as it did for temporary purposes the constitutional rights of the South, yet for the sake of peace he would be willing to acquiesce in the extension of that line to the Pacific. Of the 2 motions to that effect voted down in the house, the first had been offered by his procurement and on his suggestion. In the course of the following summer he wrote the letter already referred to, in which he developed his policy of "forcing the issue with the North." In this point of view he would regret any compromise or adjustment of the proviso, or even its rejection, without a settlement at the same time of the entire question. He complained in this letter of the recent repeal by Pennsylvania of her law allowing travellers and transient visitors in that state to retain their slaves for a limited term, and of similar repeals in other states. He insisted that the toleration at the North of societies, presses, and lectures which called in question the right of slaveholders to their slaves, and whose object was the overthrow of the institution, could not be acquiesced in without the certain destruction of the relation of master and slave and the ruin of the South. To the question, what remedy there was short of a dissolution of the union, he replied: "Only one—retaliation." The violation of the constitution on the part of the North must be met by refusing to fulfil stipulations in their favor, of which the most efficient was the cutting off of their ships and commerce from entering into southern ports. But, to make this measure effectual, all the southern seaboard and gulf states must join in it, for which purpose a convention of the southern states was indispensable.—At the ensuing session of congress, the city of Mexico being then in the possession of Gen. Scott, Mr. Calhoun submitted (June, 1848) a resolution that to conquer Mexico and to hold it as a province, or to incorporate it with the union, would be a departure from the settled policy of the government, in conflict with its character and genius, and subversive in the end of our free and popular institutions; and he again urged, if a treaty could not be made, his plan of the defensive occupation of such a line as might be fixed on for the boundary. News having soon arrived that a treaty was signed, he warmly opposed the 10 million bill and all other measures looking to a continuation of hostilities. He took occasion also to condemn, as unconstitutional, the duties and taxes which had been levied in Mexico on the president's sole anthor*246 CALHOUN

ity. A resolution having been offered in the senate congratulating the French on the success of their revolutionary struggle, he moved to lay it on the table, on the ground that it remained to be seen, in the sort of government to which this revolution might lead, whether it proved a blessing or a curse to France and the world. Mr. Calhoun warmly opposed a bill, introduced on the recommendation of the president, to occupy Yucatan, both for the protection of the white population, who, in danger of extermination by the Indians, had sent to ask assistance, and in order to prevent that country from becoming the colony of some European power. In this speech he explained the origin and objects of the so-called Monroe doctrine, which was assumed by the advocates of the bill as the settled policy of the country. That he denied. Mr. Monroe's declarations were made for a temporary purpose, and had never been acted upon. He saw no advantage to be expected from Yucatan at all commensurate with the cost of its acquisition and the burden of its defence. As to the question of protecting the white race there against the Indians, his sympathies were with the white race, though he denied any aversion to any race, red or black. But it was not quite clear that the war in Yucatan was a war of races, and still less was it clear that the whites were blameless in the matter. Moreover, there was a tendency in all the Spanish American republics to a conflict of the same kind between the whites and the Indians. "Are we to declare now by our acts that in all these wars we are to interpose, by force of arms, if need be, and thereby become involved in the fate of all these countries? Ought we to set such a precedent? No. first duty of every nation is to itself, and such is the case, preëminently, with the United states. They owe a high duty to themselves to preserve a line of policy which will secure their liberty. The success of their great political system will be of infinitely more service to mankind than the ascendency of the white race in the southern portions of this continent, however important that may be." In his speech (June 27, 1848) on the bill to organize the Oregon territory, he warmly op-posed the extension to that territory of the anti-slavery provision of the ordinance of 1787. Carrying out the principles of his resolutions, he not only denied any power in congress to exclude slavery from the territories, but in still stronger terms, any power to do it on the part of the inhabitants or legislatures of the territories. Even admitting the power in congress, he denied the justice of excluding the South from any participation in territory, to the obtaining of which she had contributed her full share of money and blood, and to the enjoyment of which she had an equal right. He started in this speech the suggestion that the constitution of the United States, extending into the territories acquired from Mexico, operated to repeal the Mexican laws abolishing slavery. In a

of the rise and pr North. He compla u t encouraged and aideu it by admitti fellowship with politicians who coqu abolitionists. He insisted that if wished to save the union, or save must rouse to instant action, such evince her fixed determination to be nection with any party in the Nor pared to enforce the guarantees of ti tion in favor of the South. By course, a host of true and faithful a rally to their support even in the No not, it would only prove that the nobody but herself to depend up was not merely on the territorial qu the rights of the South must be rest enumerated the same grounds of mentioned in the Alabama letter (not yet been made public), to which the agitation of the slavery question as out of congress, and the total : which the fugitive slave law had f laying the foundation of the new fu act passed soon after. Mesars, I Houston having voted for the clause in the Oregon bill, he denwith energy as traitors to the Sou election struggle between Gen. Tay Cass, Mr. Calhoun does not appetaken much interest. At the short lowing the election of Gen. Tayl very busy in efforts to form a un slaveholding states, irrespective of a ing party differences, to resist th of abolition. For that purpose a meetings was held, at which none holding members were present, an at times by 70 or 80 members, a par were, however, not favorable to the the meeting. At the first meeting a of 15, one from each state, was appo port resolutions. This committee sub-committee of 5, at the head of Mr. Calhoun. He drafted and repo dress, which after some modific adopted, and signed by 48 senators sentatives. It reiterated the same complaint urged by Mr. Calhoun at t session, and proposed the same runion of the South might bring the pause, a calculation of consequenchange of measures; if not, the Sc stand justified in resorting to any n cessary to repel so dangerous a blo looking to consequences. At the me pending the discussion of Mr. Clay's c scheme, Mr. Calhoun, who had b time laboring under severe 1 to which was now added dis prepared an elaborate written spe was read for him (March 4, 1849) senator. He declared in this speech from the first that the agitation of of slavery would, if not prevented by

second speech, he w

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effective measure, end in disunion. It , nowever, gone on till the union was palvin danger. The question now was, how he union be preserved? The agitation of malavery question and the many aggressions which it had given rise was, no doubt, one e of the existing southern discontent; but mus of that lay another and more potent one. be equilibrium which existed between the two ections of the union when the constitution was named had been destroyed, and the South was near day sinking in the scale. This had been ht about by federal legislation in exclud-South from the common territory, and meroundening her with taxes; to which was to madded a radical change in the character of federal government, by which it had concen-l all the powers of the system in itself, and been transformed from a federal republic, at originally was, into a great national con-bis ad democracy. That equilibrium could be restored by an amendment of the con-That amendment he did not specify in this speech, but from his posthumous treatise "On the Constitution and Government of the United States" it would appear to have been the election of 2 presidents, one from the free, the other from the slave states, each to approve of acts of congress before they could become laws. His speech attracted much attention, and was mswered by Mr. Webster and Mr. Cass. It was on March 13, in some parenthetical replies to the latter, that Mr. Calhoun spoke in the senate for the last time. He fell back in his seat exhausted, and was taken to his lodgings and his bed, whence he never rose again.—The following is Mr. Webster's estimate of him, delivered in the senate when his death was anmounced there: "The eloquence of Mr. Calhoun was a part of his intellectual character. It grew out of the qualities of his mind. It was plain, strong, wise, condensed, concise; some-times impassioned, still always severe. Rejecting ornament, not often seeking illustration, his power consisted in the plainness of his proposi-tions, in the closeness of his logic, and in the earnestness and energy of his manner. Those are the qualities, as I think, which have enabled him through such a long course of years to peak often and yet always to command attention. His demeanor as a senator is known to us all—is appreciated, venerated by us all. No man was more respectful to others; no man with superior dignity. I think there is not one du but felt when he last addressed the senate his form still erect, with a voice by no means indicating such a degree of physical weakness add in fact possess him, with clear tones and impressive, I may say an imposing mannerwho did not feel that he might imagine that we before us a senator of Rome, when Rome divived. I have not in public nor in private ife known a more assiduous person in the discharge of his duty. He seemed to have no recreation but the pleasure of conversation with

his friends. Out of the chambers of congress he was either devoting himself to the acquisition of knowledge pertaining to the immediate subject of the duty before him, or else he was indulging in those social interviews in which he so much delighted. His colloquial talents were singular and eminent. There was a charm in his conversation not often found. He de-lighted especially in conversation and intercourse with young men. I suppose there has been no man among us who had more winning manners in such an intercourse and such conversation with men comparatively young. I believe one great power of his character in general was his conversational talent, and that, along with confidence in his integrity and reverence for his talents, it largely contributed to make him so endeared an object as he was to the people of his state. He had the basis, the indisputable basis of all high character, unspotted integrity and honor unimpeached. If he had aspirations, they were high, honorable, and noble; nothing grovelling, low, or meanly selfish came near his head or his heart. Firm in his purposes, patriotic and honest as I am sure he was in the principles he espoused and in the measures he defended, I do not believe that, aside from his large regard for that species of distinction that conducted him to eminent stations for the benefit of the republic, he had a selfish motive or a selfish feeling."—As a private citizen, Mr. Calhoun was highly amiable and exemplary, enjoying the devoted love of his own family and dependants, and the entire respect and sincere regard of his neighbors. He had 10 children, 8 daughters who died in early infancy, and 5 sons and 2 daughters who His political views were often survived him. gloomy. In the senate he sometimes enacted the part of Cassandra. "How often," exclaimed Mr. Clay, in one of his speeches, "have we witnessed the senator from South Carolina, with woful countenance and in doleful strains, pouring forth touching and mournful eloquence on the degeneracy of the times and the downward tendency of the republic." But in private life he was uniformly cheerful. A personal friend, who had the best opportunities to know him, has furnished us with the following details of his private life at Fort Hill: "Socially he was the most genial and agreeable companion. He entered into the enjoyment of those around him with a sympathy and kindness that endeared him to all. He was fond of promoting innocent mirth, and, though no jester himself, laughed heartily at the jests of others. Though his conversation was ever dignified and never on trivial subjects, yet women and children, and the ignorant as well as the learned, all delighted in his society, and left it with regret. His peculiar charm was his entire forgetfulness of self, and delicate attention to the feelings and wishes of others, which made him the most truly polite man I have ever known. I never saw him depressed or out of humor. He was fond of reading, and in his youth devoted much of his lei•248 CALHOUN

sure to it, but neither his multifarious occupations nor his cast of mind permitted him to be a general reader. He read to inform himself, and was well informed, but his opinion often expressed was that reading made a secondary, thinking an original mind. He did not disdain, however, but highly enjoyed good poetry, good novels, and able reviews. He was not wealthy, but his pecuniary means, under his excellent management, were amply sufficient for the wants of his family. According to the fashion of his part of the country, he kept open house, and the family seldom sat down alone to a meal. Though himself uncommonly temperate in all things, he enjoyed in moderation the pleasures of the table, at which time he was fond of seeing all his family assembled about him. He used to say that good digestion depended greatly on cheerfulness and equanimity, and he took the lead in promoting at table conversation and gayety. The mode of life at Fort Hill was simple and rational, and the absence of all form and ceremony, combined with real refinement, made it a favorite resort. Though he never permitted company to interfere with his occupations, he was ready at all times to further their enjoyments. The hours after dinner till bedtime were more particularly devoted to conversation, music, &c. Though not musical, he was fond of Scotch and Irish songs and ballads, his favorites among which he would call for evening after evening, and listen to with unfailing pleasure. Mr. Calhoun rose early, and devoted his mornings to writing. He walked a great deal over his plantation, personally superintending its minutest operations. He was the first or one of the first in that region to cultivate successfully small grain and cotton for market. The slope of the mountain where he resided had been considered too cold and variable in climate for cotton as a market crop, and too far south for small grain. From its position, a very elevated country in a southern climate, that district is peculiarly adapted to fruit, to the raising of which Mr. Calhoun devoted much time and attention, and with excellent success. He not only had the finest melons, figs, peaches, and other southern fruits, but his apples, pears, cherries, grapes, strawberries, raspberries, &c., were equally excellent. These, however, were not raised for sale. He was himself ex-tremely fond of fruit, and he delighted in sharing it with others, enhancing its flavor from his kindly manner of making presents of it to his neighbors. He was not only fond of agriculture, but an eminently good and successful planter. There were a few among his neighbors who differed from him politically, but in agriculture his authority was never disputed. His servants were in all respects well treated. They came to him as umpire and judge. Of their private crops he purchased what he wanted at the highest market price, and gave them every facility for disposing of the rest. A rigid justice regulated his conduct toward them, which they repaid by devoted affection; and this system of managemen successful that to have been an overse Hill was a high recommendation. He ways impatient to return home, and : there till the latest moment. While t agricultural employments and socia together with his large correspondence his latter years his works on governme pied every moment of his time. He excellent shot, and till his eyesight fai erally carried a gun as he walked r place, rarely missing his aim. He wa wearied walker, and kept pace with th est and strongest of the party. Nature moods and changes was charming to h sympathized strongly with her beauty grandeur. The mountains near his i were very wild and picturesque, and henjoyed excursions among them. I he seen him, when a thunder storm was a ing, walking in his portico, which con a fine view of the mountains, apparent in the contemplation of the sublimit scene." In a familiar conversation wi timate friend a few days before his d we learn from another authentic so referred in tones of deep interest to 1 streams, the quiet solitudes, and sublin of his native mountain region. In hi Mr. Calhoun was tall and slender. tenance at rest was strikingly marke cision and firmness; in conversation, speaking, it became highly animated pressive. His large, dark, brilliant, per eyes strongly impressed all who enc their glances. When addressing the stood firm, erect, accompanying his with an angular gesticulation, which, general cast of his person and characte Harriet Martineau to describe him as: man." His manner of speaking was e ardent, rapid, and marked by a solemn ness which inspired a strong belief in cerity and deep conviction. He disd rhetorical circumlocutions, and came to the point. He was never commonp never tedious. Upon every subject acute, analytical, and original, dealing exclusively in argument. His style was clear, and condensed. He very rarely in tropes and figures, and seldom left a as to his meaning. He himself noted peculiarity of his mind, and one that is with his influence over passing eventa was disposed to follow every thing timate results, disregarding its porary, and accidental beari of Mr. Calhoun have been conceted death in 6 volumes, the first of which a disquisition on government, and a d on the laws relative to the governme United States, which he left behind hi ished. The editor, Mr. Richard K. Cralk ginia, is understood to have in prejelaborate biography of the author, ion his private papers, and other authentic

N JAGO DE CALI, a prosperous town ida, in the department of Cauca, declivity of the Andes. There and several convents, all but one leserted. Pop. 6,000,

the inner diameter of a hollow icularly applied to that of mors, and swivels. Cannon are genby the weight of the ball they

COMPASSES, or Calipers, comgs bowed each into semicircular i for measuring the diameters of s, and objects to which a straight applied. When made especially, a scale is applied to them, by me diameter of a ball is found, its read off; or the weight being givonding diameter is at once found. These calipers are merely 2 thin is connected by a rivet passing and of each. Various tables and en introduced upon them, which we wanted in practice, as tables of ty of bodies, their weights per 2, and scales for the measure of

o called from Calicut, on the Malthence it was first imported), a in England to white or unprinted in the United States to cotn which colored patterns are imthe use of dyes. The effect pro-hat of the colored designs brought n, but with much greater economy labor. This art is known by calico printing. Its origin, like 3, is traced back to very remote in some form or other appears to ctised by nations of little skill in s. The aborigines of our own been in the habit of staining their different colors, which is a rude ico printing; while the natives of e time of its conquest by Cortes, ments of cotton, adorned with sck, blue, red, yellow, and green magnificent linen cloths of Sidon iriegated colors were noticed by Herodotus makes mention of the he inhabitants of Caucasus adorned f animals dyed in fast colors with leaves. The account of the proy Pliny, as practised by the anns, is particularly interesting for skill there attained in the art, as ibing with great conciseness the the common operations: "They oths, and apply to them, not colors, ugs which have the power of abinking in color; and in the cloth n there is not the smallest appeardye or tincture. These cloths into a caldron of some coloring ng hot, and after having remained rithdrawn, all stained and painted in various hues. This is indeed a wonderful process, seeing that there is in the said caldron only one kind of coloring material; yet from it the cloth acquires this and that color, and the boiling liquor itself also changes according to the quality and nature of the dye-absorbing drugs which were at first laid on the white cloth, and these stains or colors are moreover so firmly fixed as to be incapable of removal by washing. If the scalding liquor were composed of various tinctures and colors, it would, doubtless, have confounded them all in one on the cloth; but here one liquor gives a variety of colors according to the drugs previously applied. The colors of the cloths thus prepared are always more firm and durable than if the cloths were not dipped into the boiling caldron."-In the different countries of India the art is practised with various degrees of skill. In some the patterns are drawn with a pencil upon the fabric; while in Mesopotamia, as stated by Mr. Buckingham, blocks are employed for producing an impression, as practised by the English blockan impression, as practised by the English blocka-printers. The Chinese also have long used the same process. The large chintz counterpanes, called palampoors, of an ancient East India fabric, are prepared by placing on the cloth a pattern of wax and dyeing the parts not so protected. From India it appears the art was introduced at an early period into Europe; but it never became of much importance till some time in the 17th century, when Augsburg, in Bavaria, became celebrated for its printed cot-tons and linens. From this city the art spread into France, Germany, Switzerland, and Great Britain, being introduced into London about the year 1676. Here, being greatly restricted by the opposition of the silk and woollen weavers, it made but slow progress. In 1720 the wearing of printed calico was prohibited by act of parliament, under a penalty of £5 for each offence on the part of the wearer, and of £20 on that of the seller. In 1730 it was allowed to be printed, provided the warp was of linen, and the west only of cotton; but even then it was subject to an onerous tax of 6d. per square yard. In 1774 the restriction upon the manufacture was repealed; but a tax of 3d. per yard was continued, which was increased in 1806 to 31d. In 1831 this duty was repealed; and the art which had sustained itself under all the attempts to keep it down, now that it was relieved of the burden of paying an average of 50 per cent. on the goods produced for home consumption, suddenly received a great impetus, so that in place of 8,300,000 pieces of goods manufactured in 1830, the production was increased within 20 years to about 20,000,000. The character of the goods was greatly improved, as well as the processes and machinery; while the cost of production was much reduced by the enormous quantities manufactured. The process of printing by wooden blocks, each one of which of a few inches square was applied by hand, impressing the portion of the figure upon its surface in a single color, and another block sub244 CALIOO

sequently applied in the same spot to fill in another portion of the figure in another colorthis process was soon nearly superseded by immense machines constructed with the greatest ingenuity, capable of producing 15 or even 20 colors at once with the same precision as in the case of the simpler machines which printed only 2 or 3 colors at once, while at the same time 600 or 700 times as many pieces were produced per day, as if they had been blocked separately with the same number of workmen employed. The progress of this very important branch of the manufactures of Great Britain is elaborately treated in the valuable treatise upon dyeing, in the work on chemistry by Dr. Muspratt. This also contains full and clear details of the numerous processes, chemical and mechanical, applied in conducting this business to its present high state of development. The art, perfected by the highest chemical talent, which has been most liberally directed to improve it, owes its prosperity as well to the ingenuity of the mechanicians who have applied their skill to the construction of its wonderful machinery; while the taste of the artist has contributed its share to give that constantly increasing elegance combined with novelty of pattern to its products, which secures for them the demand essential to the success of the manufacture. It is curious to consider the great variety of taste which the calico printer is obliged to consult. As articles of dress, his goods are to be worn by the half-clothed savage, fond of a display of gaudy colors; they are to please the most refined tastes of the ladies of civilized nations, of those of eastern harems, and of the wives of African kings. Almost every country upon the globe is a customer for these goods, and each demands peculiar styles, patterns, and colors. These, too, must be varied with the seasons, and always present some novelty. For this purpose artists or pattern designers are especially employed, whose constant occupation is to furnish new patterns, from which the printer selects those he judges most likely to be popular. The expense of this branch is to some of the large establishments as much as \$4,000 per annum; agents are employed to collect in France the new patterns as fast as they appear there, and send specimens to their employers. The French artists are admitted to produce finer designs than the English, while the latter nation claims a superiority in the mechanical departments of calico printing. deed, the art of designing is stated by the English to have retrograded, the patterns now produced being altogether inferior to those designed many years ago by artists of great merit. cause of this is very probably the dependence upon the French, and the facility of copying the work of their artists.—The preparatory operations to which the cloth is submitted before printing have been in part described in the articles Calendening and Bleaching. Printing involves numerous operations of great diversity, of which but a mere outline description

can be attempted in an article of this The old method of printing by blo practised in some parts of the proc cloth is spread upon the surface of a table covered with a blanket, and receive impression of the figure, or a portion of it. the application by hand of the block of 1 upon which the pattern is cut in rel surface thus printed varies, accorsize of the block, from 9 to 10 and from 4 to 7 inches in breaum. is moved along the table as fast as printed the colors transferred from the block dry u it, as it is suspended in folds upon rollers. blocks are sometimes made by r tern with slips of copper inserteu ... by which they are rendered much man (ble, the frequent applications upon pieces of cloth soon causing the wooden to lose the distinctness of outline of the signs. Pins in the corners serve to make holes in the cotton, which mark the p placing the block the next time. As third color is introduced into the 1 using a second or third block, so entropies to fill in the vacancies left by the pres A modification of the block, called a ' has been contrived, by which se have been applied at once.—A compa chine, exhibiting great mechanical mechanical was introduced into the French printing lishments in 1834, by M. Perrot, of Ro which the block-printing process was remuch more expeditious than by the o hand method. It was named for its the perrotine. Its construction is too cated to admit of description. As 1844, it printed variously colored white ground with the utmost delic with such economy of labor that two print in 8 colors from 1,000 to 1,000 v of calico daily; an amount of work w and as many tearers (assistants for kee colors in order to be received v pression upon the block).—Cop, ing was introduced in the works about the year 1770. The des - the flat plates in intaglio, and two color, upon the whole surface, was resmooth portion, leaving it in the The stuff received it from these on into them by such a press as is ing engravings on paper. The char flat plates to a cylindrical for in method called cylinder-prince improvement that has ever be art, the importance of which can overrated. In some of its forms, 1 complete, it is stated that a mile ou be printed off with 4 different col hour, and more accurately and wi than by hand blocks. One cyli attended by one man, can perfo in the same time as can 100 me assistants. The invention of the

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attributed to a calico-printer named at Jouy, in France, and again to a of the name of Bell, who constructed the year 1785. But Dr. Muspratt that the latter only is entitled to of it, and that "cylinder-printing is itish invention." The copper cylinom 30 to 40 inches in length, and 12 in diameter. They are turned d piece of metal bored through the he pattern is imprinted upon the a steel cylinder called a mill, upon attern is impressed, before the steel , from another steel cylinder called which the design has been engraved as the copper finally receives it. i is complete around the circumferroller, and each revolution of this eats it. In the large calico print engraved copper rollers constitute a tant item in the investment of the value of the stock of these held by larger print houses being rated even 200,000. The value of a single one is \$25 to \$30. These cylinders, one for to be applied to the cloth, are set in ame against the face of a large cennade of iron and covered with woola several folds, between which and ing cylinders the calico is printed as The color is spread upon the rollers rolving each one in contact with an oller, which dips into a trough concoloring matter or the mordant ickened; thus the engraving rollers color, and impart it, as they revolve, co pressed between their face and fixed drum. The superfluous color anly off by a sharp blade of steel or Lagainst the edge of which the copscrapes in its revolution. To this the name of doctor is given. By the color required to fill the depreson the rollers, and the excess falls ie trough. The employment of many ollers in a single machine is attendsat difficulties, arising from the mulof all the other attendant parts in roportion. The cylinders have difneters as the pattern requires, and equently, revolve at different rates By passing under many rollers, the danger of being displaced, and the of the print disturbed. But when ; is exactly adjusted, the work goes autiful precision, accomplishing an ry amount of work. At the Ardworks in Manchester is a magniftine of this sort, ordinarily working out capable of printing 20 colors. of the cylinder machine, particurequired that the colors and morild be brought to the proper conums employed, so that they may not run into each other; and that the

selection of these thickeners should be with reference to the chemical effect that may result from their mixture with the colors. arrangement of the colors, too, in their order of succession, must be with reference to the effect that one may have by coming in contact with the other on the cloth. The rooms in which the operations are conducted require to be kept at a proper degree of humidity and warmth, the success of the delicate processes depending in great measure upon due attention to these particulars. As the cloth leaves the printing machine, it is drawn over rollers through a hot-air chamber, raised to the temperature of about 200°, in which it is thoroughly dried and the colors become set. In some instances, after being thus dried, the cloth is left suspended for 1 or 2 days in what is called the ageing room, in order that the mordant exposed to the air should undergo the chemical change which causes it to attach itself permanently to the fabric.— The various methods of preparing and applying the colors and mordants are classed under 6 or more different styles; called, 1, the madder style; 2, the padding style; 3, the topical style, or printing by steam; 4, the resist or reserve style; 5, the discharge style; and 6, the China-blue or pottery style; to which some add the mandarining, in which the color is produced only on silk and woollen fabrics by the action of nitric acid upon the animal tissue. Two or more of these are commonly applied upon the same piece, to produce the various colors of the pattern. Each of them is a complicated process, involving numerous chemical operations, which would require volumes for their full description.—The madder style is like that described by Pliny, quoted above. The coloring matter, which may be madder, or almost any organic dye-stuff capable of imparting its color to water, and forming an insoluble compound with mordants, is not applied to the cloth, but this is printed with the mordant instead, and the color is afterward brought out in the places to which the mordant has been applied, by the ordinary methods of dyeing. By the different engraved rollers, each supplying a different mordant, various shades and colors are afterward brought out by one dye. But before the goods are in a state to receive the dye, it is necessary to remove that portion of the mordant which has not undergone in the drying or ageing that chemical change which renders it insoluble and fixed in the spots to which it is applied. For, if left, it would spread in the dye-beck or vat, and cause the dye to adhere where it should not be seen. From the material used to effect this removal, which is a warm aqueous solution of cow-dung, to which chalk is added if the cloth contains any free acid, the process is called dunging. Solutions of phosphate of sods and phosphate of lime, with a little glue or some other forms of gelatine, thus imitating the composition of cowdung, are sometimes employed in the want of 246 CALICO

the animal product, and are called substitutes. For delicate colors a solution of bran is also used. Not only is the useless portion of the mordant removed by this method, but the material employed as thickening is also dissolved out, and the mordant which remains is the more firmly fixed by uniting with some of the constituents of the dung or of its substitutes. cloth, after being passed twice through the dungbecks, is several times washed in clean water, and is then ready for dyeing. Upon the care with which the dunging operation has been conducted, the delicate effects to be produced in great measure depend.—The padding style is practised only with mineral colors. A colored ground is obtained by passing the cloth through a tub containing the mordant, and then between 2 rollers covered with blanket-stuff, which press out the superfluous liquid. This is called the padding machine. It next goes through a similar apparatus which furnishes the color. If the object is to obtain a design on a white or colored ground, the cloth may be first mordanted in one padding machine and then printed in the other; or, as commonly practised, be first printed with one of the solutions, and then be padded or winced in the other. Wincing is the passing of goods back and forth a number of times over rollers placed in the dye-becks below the surface of the dyeing liquid.—The topical style, or steam printing, is the application of steam to fix more strongly colors that do not attach themselves firmly to the cloth by being merely printed on together with the mordant. It is called topical from the colors being themselves printed upon the cloth. These are sometimes permanent without the application of steam; and many cheap goods are sold, principally for exportation, in which the fugitive colors, called spirit, fancy, or wash-off colors, are fixed neither by a mordant nor by steaming. Steam not only makes the color more permanent, but gives to it a brilliancy and delicacy of finish. It is applied in a variety of methods—by exposing the goods in a cask, steam-chest, a tight chamber, or receptacle called a lantern, or in that commonly used for calicoes, called the column, to an atmosphere of steam at the temperature of 211° or 212° F. The column consists essentially of a hollow copper cylinder perforated with numerous holes, placed upright in a small apartment furnished with a flue for the exit of steam. Around the cylinder is rolled a piece of blanket, then a piece of white calico, and afterward several pieces of the printed and dried calico. The steam is then let into the cylinder for 30 or 40 minutes.—The resist style is the printing designs with some substance, as oil or a paste, which will protect the portions it covers from receiving any color, and which may subsequently be removed. They may be of a nature to act mechanically or chemically, and designed to resist the action either of a mordant or a color. The discharge style is producing white or bright figures upon a colored ground, by dissolving out the mordant in goods not yet dyed, or

the dye if this has been first applied, printing the portions anew with the h Chlorine and chromic acid are comm for removing organic coloring matter dants are dissolved by printing with tions. White figures are thus produthe imitation turkey-red bandanna chiefs by letting a solution of chlo through hollow lead types of the fo figure, the types in 2 corresponding above and the other underneath, bein press which contains a pile of 12 or kerchiefs. The plates are brought to a pressure of about 800 tons, and the cient to prevent the chlorine water fix ing the fabric beyond the limits of th The China-blue style is a method of pattern, partly of white and partly of shades of blue, by first printing with its insoluble state; and then reducis the soluble state and dissolving it cloth by immersing it in suitable pre In this process the dye is transfe the substance of the fibres, where it tated in the original insoluble form, same variety of shades that were p the goods. It is very curious that u cess the shades when dissolved do no gether, nor even spread upon the po white.—Very interesting statistics the production of dyed goods have be ed by Mr. Edmund Potter, reporter fc on printed goods in the great exhibition and these were made public by him is the succeeding year, before the sock The immense importance of this manufactures, will justify our giving to these details. The annual productic ed cloth in Great Britain, including laines, and printed woollens, as well is estimated by Mr. Potter at about pieces; and in the cotton fabrics abo whole importation of the raw mater consumed. The entire export of 1 cotton goods, not including yayear 1851, 23,447,108 lbs., and mout is supposed to be printed goods. The table shows the proportions sent to countries in 1851:

Hamburg and north Germany,	large	porti
in transit	• • • • •	• • • • • •
Belgium		
Denmark Sweden and Norway		
Russia-Odessa only		
France—in transit	••••	• • • • •
Naples and Sicily		
Turkey, Ionian Isles, Greece, M		
EgyptGibraltar and Spain	• • • • • •	• • • • •
Portugal and Madeira		
Chili and Peru		
Brazils and east coast of South	Lmerk	
British West Indies	• • • • • •	• • • • •
St. Thomas		
British North America		
United States		
	•••••	

	Pieces.
China, Manila, and Singapore	550,000
Manritius and Batavia	825,000
Coast of Africa and Cape of Good Hope	505,000
Australia	287,000
New Zealand and South Sea Isles	86,000
California	45,000
Total	5,544,000

The home consumption in 1830 was 2,281,512 pieces; in 1851 it was estimated at 4,500,000, m increase consequent in great measure upon the repeal of the duty. The number of print works in Great Britain and Ireland, in 1851, not including the London district, was 120 in Lancashire, 81 in Scotland, and 1 in Ireland. The great increase of the business in Lancashire for the last 30 years has been by the extension of old establishments, only 1 or 2 print works of great importance having been added in this time, while a greater number of large establishments have been discontinued. production of France in 1840 was estimated at \$,500,000 pieces. It has since probably increased 1,000,000 pieces. The French production, in consequence of the superior qualities of the goods, ranks next to the English in value, though that of the United States exceeds it in quantity. "The consumption of the United States is more per head for her population than that of any other country in the world; but her printing is more remarkable for mechanical power and speed than for taste; her mode of business, forced in many in-Mances by large capitals on the joint-stock system, varies completely from that of Great Britain. Her cost of production is also much higher from her high-priced labor, coal, and drugs. She protects herself with a 20 per cent. duty, and competes with this country only in her own market. The Zollverein, Austria, and Bohemia produce for their own markets, and by their protecting duties prevent any other supply, except of very fine French goods. Their prints are good in execution, imitations of French taste in the finer goods, and of English prints in the medium and lower qualities. Switzerland is very limited but choice in production, and opens her market to the world with a fiscal duty of only 21 per cent. Holland has a small production of medium goods, and a very moderate protection, not exceeding 5 per cent. Belgium is highly protected, and produces nothing deserving notice in quality. Naples has a few small print works, and high Protective duties. Russia produces printed goods of no great character, and her market is Prohibited to the British, except the port of Odesa. Spain likewise produces goods of an inferior quality, to a limited extent, and prohibits imports, except in goods of a very fine quality at a duty of 50 per cent. Occasionally a large trade is done in English prints through the smugglers, chiefly from Gibraltar. Portugal produces very slightly, and imports English goods at a duty of about 30 per cent. Turkey produces a few printed goods, hardly worthy of criticism. Her duties are light, not above

8 per cent. Egypt has likewise revived the art, and with the assistance of European machinery and workmen produces the rudest possible results; duty as in Turkey. Of the production of all other countries, it may be fairly stated, with the exception of those of China, the East Indies, and the negroes, that they are imitations of either French or English goods, and cannot any of them be said to have a school of their own. The Chinese undoubtedly practised the art of calico printing many centuries before it was known in western Europe, but their productions exhibit a very primitive taste and rude execution. In conclusion, Mr. Potter is inclined to think that the production of Great Britain in printed goods exceeds that of all the rest of the world."export of printed cottons from the United States in 1857, amounted to \$1,785,685, of which over \$1,000,000 was from Boston. Imports of the same in 1856, \$19,110,752. The value of calicoes manufactured in Massachu-

setts in 1855, was \$5,213,000.

CALICUT, a seaport of Malabar, lat. 11° 15′ N., long. 75° 50′ E. Pop. about 25,000, chiefly Mohammedans. It was the first Indian port visited by Vasco da Gama; was destroyed by Tippoo Saib, and the inhabitants removed; but thas risen again under English ascendency. The name of calico is derived from this town, whence this cotton cloth was first imported.

whence this cotton cloth was first imported.
CALIFORNIA, one of the western states of
the American Union, is situated on the Pacific
ocean between lat. 82° 20′ and 42° N., and long. 114° 20' and 124° 25' W. It is bounded N. by Oregon; E. by the territories of Utah and New Mexico, following the Sierra Nevada on the line of long. 120° W. to lat. 89°, thence S. E. to the river Colorado on the 85th parallel, and thence by the course of that river; S. by the Mexican territory of Lower California, and W. by the Pacific ocean. The outline of this state is very irregular. Its general direc-tion lengthwise is N. W. and S. E., and a line drawn through its centre, following the curves of its eastern and western boundaries, would measure about 770 m. The greatest breadth of the state is about 330 m. its least breadth 170, and average about 280 m. Its area is estimated at 155,500 sq. m., or 99,520,000 acres. -It is divided into 45 counties, as follows: Alameda, Amador, Buena Vista, Butte, Calaveras, Colusi, Contra Costa, Del Norte, Eldorado, Frezno, Humboldt, Klamath, Los Angeles, Marin, Mariposa, Mendocino, Merced, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Bernardino, San Diego, San Francisco, San Joaquin, San Luis Obispo, San Mateo, Santa Barbara, Santa Clara, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Tehama, Trinity, Tulare, Tuolumne, Yolo, Yuba. Of these, 10 have been erected since the state census of 1852.—The state contains 7 incorporated cities, viz.: San Francisco, Sacramento, Marysville, Stockton, Los Angeles, San José, and Benicia. Of these, San Francisco (pop.

in 1852, 34,876, in 1858, 70,000 to 75,000), the commercial capital of the state, situated on a narrow point of land between the magnificent bay of the same name and the Pacific ocean, in lat. 37° 47' 85" and long. 122° 26' 15", is the chief city on the Pacific coast. Within the brief space of 10 years it has sprung from the condition of a small village composed of a few adobe houses and a few hundred inhabitants to that of one of the chief commercial centres of the world. Sacramento City, the political capital of the state, and the second city in importance (pop. 25,000 to 30,000) is situated on the Sacramento river, in the county of the same name, about 90 m. in a direct line and 120 by way of the river N. E. from San Francisco. It is a town of much commercial importance, being at the head of navigation for large steamboats, and the interior depot for the gold collected from an extensive mineral region. Marysville (pop. 10,000), in Yuba co., on the Yuba river, near its confluence with Feather river, is a town whose importance arises from the fact of its location at the head of navigation on Feather river (of which the Yuba is a tributary), and its commanding the trade and travel of the northern mines on Feather river and its branches. Stockton (pop. 7,000 to 8,000), in San Joaquin co., is situated at the head of a "slough" about 3 in distant from the San Joaquin river, and about 100 m. E. from San Francisco by water. It is the chief depot for the southern mines. Los Angeles, in Los Angeles co., near the coast, is the largest town in the southern part of the state, and was originally a mission station; as was also San José, a beautiful town in Santa Clara co., 7 or 8 m. above the head of San Fran-cisco bay, and about 50 m. from San Francisco. San José was at one time the capital of California. Benicia (pop. in 1853 about 2,000, in 1858 about 1,500) was also formerly the capital of the state, and is situated in Solano co., on the strait of Karquenas, which connects San Pablo and Suisun bays; and while it remained the political capital, it was a place of considerable business importance, but has since declined. Nevada (pop. 5,000 to 6,000), the capital of Nevada co., in the northern part of the state, is the largest mining town in the gold region. It is situated on Deer creek, a confluent of the Yuba, at an elevation of about 8,000 feet above the level of the sea. other principal towns are San Diego, Trinidad, Santa Barbara, San Luis Obispo, Monterey, Santa Cruz, Santa Clara, Vallejo, San Rafael, Sonoma, Napa, Oakland, Mendocino, Humboldt City, and Klamath, all on or near the coast; east of the Coast range, and for the most part among the mines, are Shasta City, Downieville, Grass Valley, Nicolaus, Mokelumne Hill, Sonora, Mariposa, San Bernardino, Visalio, Columbia, Placerville, Coloma, Auburn, and a few others of less importance.—Two enumerations of the population of California have been taken since its acquisition by the United States, those of

the national census of 1850, and census of 1852. Owing to the ext settled state of the population, and t position of a large portion of it, t are necessarily very imperfect, and tistics as were collected at the ge sus of 1850 were mostly destroye and consequently never reached t bureau at Washington. In 1831 the (Mexican) was estimated at 23, census of 1850 the number rett 92,597; by that of 1852, 264,485, ter number were included white male white females, 22,198 (a disproportio males and females which indicate anomalous state of society); citizer years of age, 115,000. The population as carefully estimated (in part from turns), was 518,880, of whom 217,750 male adults, 70,000 women, 44,63 under 18 years of age, 4,000 colore making a total American population The foreign white population is pu 67,000, of whom 15,000 are French, 15 can, 10,000 Irish, 10,000 German, 2,00 and 15,000 of various nationalities, total white population of 403,880; to 50,000 Chinese and 65,000 Indians, and total is 518,380. Although a very tion of the population of California na the other states of the Union, yet an nationality in the world has its repre there; but the most remarkable foreign tion has been from China. From 18: inclusive, 75,301 Chinese arrived at cisco, 18,434 of whom arrived in 1003 in 1854. During the same took their departure, mostly for the land. Allowing 10 per cent. for dea are now about 52,000 Chinese in They are represented as a very quiet orderly, and industrious people, exother classes in these respects. Th other classes in these respects. vided into 5 companies, each of whic its own sick and indigent. Members company rarely quarrel, but there an al disputes, and have even been pitch in some of the mining districts, between belonging to different companies. occupations are mining, fishing, v trading in such provisions and article demand among their own people. among their number very few mech physicians, and no lawyers nor pr Chinese newspaper was published in cisco for several years, but has been There is a Chinese theatre in cisco. The Chinese usually engage partnerships to work or trade, 20 c joining in mining and 6 or 8 in keep Very few are employed to work mu by Americans, or as servants. As de are said to be very trustworthy, and erally preserve the style of dress p their country. They all know how their native language, but have

They are believed to have generally belonged wa very low class in China. Of 10 or 15 who thended the missionary schools at Hong Kong, shw are fair English scholars. There are short 4,000 Chinese women in California, most whom lead abandoned lives. In religion the California Chinese are nominally Buddhists, but have no temple in California. Their chief religious observances are the worship of their mestors and making offerings at the graves of their deceased friends. Several days of each year are set apart for these offerings. Each company sends all its dead to China. There are perhaps 50 Christian Chinese in the state. -An attempt is making to colonize the Indians in California, and of the 65,000 about 16,000 are on reservations, of which there are 6 in the state, viz.: Tejon, in Los Angeles co.; Nome Lackee and Nome Cult farms, in Tehama; Klamath, in the county of the same name; Mendocine, in Mendocino co.; and King's river farms, in Frezno co. Each of these reservations, except Nome Cult farm (5,000 acres) and King's river farms (2,000 acres), contains 25,000 acres. On these various reservations 4,100 acres are in sultivation, and the Indians, under the instructions of whites and as wards of the government, making some advances in agriculture and the arts of civilized life. Mr. Henley, superin-tendent of Indian affairs for California, in his report for 1857, says: " That Indians can be collected on reservations and subsisted chiefly by their own labor, the experiments we have already made sufficiently demonstrate." Of those Indians not yet settled on reservations a considerable proportion are in a wild, roving state, and subsist by the chase, while others are scattered among the whites in the settled portions of the state, and, adopting only the vices of civilization, seem to be on the road to rapid extermination.—The Sacramento and San Joaquin are the most important rivers in California, the former having its head springs in Mt. Shasta and its connected spurs in the northern part of the state, and the latter rising in the Tulare lakes on the south; they flow toward each other (the former south and the latter north), draining the great valley to which they jointly give name, until they finally unite near lat. 38°, turn abruptly W., and flow through Suisun bay into the bay of San Francisco. Nearly all the tributaries of these rivers are small, and flow chiefly from the Sierra Nevada, the principal being the Feather (with 3 considerable forks), the Yuba, and the American, flowing into the Sacramento, and the Calaveras, the Stanislaus, the Tuolumne, and the Merced, into the San Joaquin. The Sacramento is about 370 m. long, and is navigable for large class steamboats, at all seasons, to Sacramento City, 90 m. from its mouth (or 120 from San Francisco), and for smaller craft to Red Bluffs, about 150 or 200 m. above Sacramento City. The San Joaquin is about 350 m. in length, is navigable for ordinary steamers to Stockton, and for small craft, during the rainy season, to

the mouth of the Tulare slough (about 150 m.) through which a canal is now being cut to connect the river with Tulare lake. Kern river, between lat. 85° and 36°, forms the southern boundary of the mining region. The Klamath flows from Oregon through the N. W. corner of the state, with a considerable affluent from the south called the Trinity, and empties into the Pacific. The Salinas, or Buenaventura, flowing north into the bay of Monterey, drains the valley between the Morena and Coast range mountains. The Rio Pajaro, having its outlet near that of the Salinas, and the Eel and Russian rivers on the north, are considerable streams. The Colorado, forming in part the S. E. boundary of the state, is an important river, navigable for vessels drawing 6 feet of water, and is now being explored and surveyed by the U. S. government. - There are 7 ports of entry in California, viz., San Francisco, Sacramento, Benicia, Stockton, Monterey, San Pedro, and San Diego. California has a sea-coast extending the whole length of the state, following the indentations of the coast, somewhat over 700 m. San Francisco bay communicates with the ocean by a strait about a mile wide and 5 m. long, shut in by low mountains on either side, and appropriately named the Golden Gate, since through it flows and reflows nearly the whole immense tide of seekers for the precious metals, as well as the rich product of their labors. Near the head of this strait, on a peninsula forming the S.W. shore of the bay, is the city of San Francisco. The bay proper is about 60 m. long and 14 wide in the broadest part. At its extremity is the smaller bay of San Pablo, and to the east of the latter that of Suisun, each from 10 to 15 m. square. The other principal bays, beginning on the south, are San Diego, Santa Barbara, Monterey, Bodega, and Humboldt, all small and opening into the Pacific.—There are but few islands on the coast, and they are small. On the south are those of Santa Catalina, San Clemente, and several lesser ones belonging to Los Angeles co.; Santa Cruz, Santa Rosa, and San Bernardino, to Santa Barbara co. Some of these are used for sheep grazing, and others are the resort of great numbers of seal, otter, beaver, &c. The Farallones (or needles) are a small group opposite the Golden Gate, on the southernmost of which is a lighthouse of the first order.—There are few lakes worthy of mention in California. largest is Tulare, in the S. part of the state, which is very shoal. In the wet season it extends to a length of about 100 m., and in very dry seasons is confined to a much smaller compass, and is fordable in nearly all its parts. Owen's and Kern are much smaller lakes in the same region. Mono is a small lake in Mariposa co., east of the Sierra Nevada. The others are Clear lake, in Mendocino co., in the western part of the state, Klamath (lying partly in Oregon), Indian and Goose lakes on the north.—The most striking feature in the physical geography of California is the existence of 2 great ranges of

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mountains running N. W. and S. E., and generally parallel, called the Sierra Nevada (snowy range), and the Coast range. The former The former shoots off from the latter on the S., the snow-capped Mt. San Bernardino, near lat. 84°, long. 117 (said to be 17,000 feet high), being the connecting link. Thence it sweeps N. W. to about lat. 38° 45′, long. 120°, whence it extends due N., forming from that point the E. boundary of the state. At the N. end it is again united with the Coast range mountains by a transverse range in which is situated Mt. Shasta, 14,390 feet high, in about lat. 41° 15'. The Sierra Nevada is by far the most lofty and rugged range, its summit being generally above the region of perpetual snow, and having but few, and those very elevated passes. Its sides are covered to about half their height with a growth of oak, succeeded by forests of gigan-tic pine, cedar, and cypress, and these by the naked granite and snow. From its W. slope it sends off numerous spurs into the interior valley; and among these lies the great gold region dis-covered in 1848. The highest peaks, after those already named, are Mt. St. Joseph, about 10,000 feet; the Butte, 9,000; Table Mountain, 8,000; Saddle, 7,200, &c. The Coast range, as its name indicates, runs along the coast, giving it that rock-bound character so forbidding and danger-This range averages from 2,000 to 8,000 feet in height, and is divided in its length by long narrow valleys, the Los Angeles, Salinas, Santa Clara, Sonoma, Napa, and others, and also by the bay of San Francisco. The portion to the E. of this bay is known as the Contra Costa The breadth of the coast mountains (from the Pacific to the great valley of the Sacramento and San Joaquin) does not exceed 40 miles in most parts of the entire length of the state. The valleys in the midst of these coast mountains, some of which are 60 miles in length by 10 broad, possess an equable and genial climate. On the S. side of the break caused by San Francisco bay, is Monte Diabolo, 3,770 feet high, and on the N. side Table Hill, 2,560 feet high. Beyond this point the range is generally low, but with a few very elevated peaks, as Mt. Ripley, 7,500 feet; Mt. St. John, 8,000 feet; and Mt. Linn, the highest of the range, but whose precise altitude has not yet been determined. The interlocking spurs of the two ranges cover the whole northern end of the state, and give it a very broken and rugged character. The mountains of this range are clothed throughout with luxuriant forests, and contain a great variety of minerals, of which some of the most valuable are found in abundance. Between the Coast range and the ocean occur numerous minor ranges and isolated hills, frequently approaching the water's edge, and enclosing a succession of the most beautiful, salubrious, and fertile valleys. The range of the Sierra Morena, or Brown mountains, on the S., lies between the Pacific and the Salinas or Buenaventura and San Juan rivers. To the N. the Pacific slope is still more broken with low hills

and mountains.—Between the Sierra Ner and Coast range lies the great basin be the double name of the San Josquin and mento valleys, although really but one geical formation. This extends N. and & 500 miles, with an average breadth of f. 60 miles, and presents evidences of ha been the bed of a vast lake. At the S. cal are the Tulare lakes and marshes, which wet season cover a large extent of Along the great rivers, the valleys ally low and level, and extremely ferrome into undulating slopes and low hills, mountains are approached on either for broken on the E. by numerous well-wo spurs from the Sierra. At the N. end is an el ed plateau, about 100 miles in length, conwith rugged hills. East of the Sierra, in Tol-San Bernardino, and San Diego cos., is a little explored, mostly level, much of it and barren, but to a considerable extens adapted to grazing, and along the Colorad posed to have a rich alluvial soil.—On the side of the Coast range near Budega found sandstones, clays, talcose slate, and he rock. The Sacramento valley over the m tain to the E. contains conglomerates stones, and on the western slope of the Nevada talcose slates again appear, with gran trap, and serpentine. There is a volcant Calaveras co., and volcanic vents, surreby deposits of sulphur, &c., occur along coast.—The climate of California, owing the diversities of surface and other c varies greatly in different parts, irr of the great range of latitude, 91°, unwhich the state extends. San Diego in S. is in about the latitude of Charleston, S. and Crescent City in the N. in that of Prot idence, R. I.; but the climate differs t greatly from that of the Atlantic slope is same latitudes, and probably from that of other country in the world. The pecof the California climate generally, as c with that of the Atlantic states, are, winters are comparatively warm; rains are confined to winter, and not me abundant as on the Atlantic coast, the for 3 of the year, thunder storms never severe, with hail storms in February March, but never in summer, nights cold = in midsummer, with little difference temperature of winter and sum ularly on the coast from 35° to 40. speaking, California has several climates: basin of the Sacramento and San Jos leys having one; the western slope of terrange, N. of lat. 35°, another; and the of the state S. of 35° still another. Two W. of the Coast range is different from of the same range, which is less than in width. For instance, San Francusco Stockton are in very nearly the same I one on the coast, and the other in Joaquin valley, E. of the Coast range; very little difference in the elevation of

, yet it is ed on very good authorthe summer months the merthat duri ut 80° higher at Stockton risco. At the latter city the es above 80° in the dry, or ækdoru relow 40° in the wet season. From a table kept at San Francisco, from Dec. a April, 1857, it appears that the greatest bid during that time was 25°, or 7°
e ig point, which, says the "Cali," "may be set down as nearly
or cold ever felt here." During 8 of cold during that time was 25 , the fre , 1852, '58, and '56, the mercury did w the freezing point, and in 1858 the point reached was 40°, or 8° above freezthe extreme of heat, for the same period, in Sept. 1852, a very unusual temperature Francisco. In 1856 the highest tempe-, was 85°, and in 1851, 84°. Snow very v falls in San Francisco, and the winters 1 to bear a strong resemblance to summer of the Mississippi valley. wary seldom, if ever, remains at the r point 24 hours together. The mean re of spring, summer, autumn, and s 54°, 57°, 56°, and 50°, showing a d only 7°; and taking the months sepathe range is only 9°, the mean temperaof Sept., the warmest month, being 58° the coldest, 49°, and the mean of the year It is doubtful if any other country in the wid has so cool summers and so warm winret there are comparatively great changes ner days, the mercury sometimes falling uly, and rising to 87°; indeed, variaon from 20° to 80° during 24 hours are uncommon. The coolness of the summer is attributed to the chilling fogs and rom the ocean. The wind blows, a part of usy, from the N. and N. W. along the early the whole year. At San Francisco winds commence pouring through the Gate toward noon, and increase in and chilliness till late at night. Heavy cur during the night in the months of July, and August, but are of rare occurin winter, when the winds are not so The numerous sheltered valleys near are comparatively free from the and equable climate. In the interior
mes are much greater, the mercury in mento valley often rising in summer or 112°, and along the Colorado as = 140°; but owing to the extreme dryness osphere, this great heat is much less in its effect than even a considerably perature on the Atlantic side of the and the nights are never so hot as to In the Sacramento and San the mean temperature of the rs are from 20° to 80° above. The : west of summer is supposed to result absence of the ocean breezes and fogs, we cold of winter from the proximity to VOL. IV.-17

the snow-capped Sierra Nevada. - California has a rainy and a dry season, the former nearly corresponding to the winter, and the latter to the summer of the Atlantic region. The rains begin at the N. early in autumn, but do not fall in the latitude of San Francisco, in any appreciable quantity, until about the middle of December. For the 7 years from 1850 to 1857 the mean annual fall at that point, during the 6 months from Nov. to April, inclusive, was 20.95 inches, and but 0.22 during the other half of the year. In Jan. 1856, rain fell on 11 days; in Feb., 2; March, 5; April, 8; May, 6; June, July, and Aug., none; Sept., 2; Oct., 6; Nov., 10; Dec., 12; total, 62 days in the year. Snow is very rare on the coast, or in the valleys, and never remains for many days except in the Klamath valley, where there is sometimes a month's sleighing during a winter. There are many mining towns high up in the mountains where the snow falls to a great depth, and lies till late in the spring. During autumn many of the rivers sink in the sand soon after leaving the mountains in which they rise; the plains and hills are baked hard to the depth of many inches the grass and herbage, except near springs and in swampy ground, are dried up and burned as brown as the earth they grow upon. Earthquake-shocks are quite frequent in California, but rarely so severe as to do any damage. It is said that 20, 50, and 70 years ago, houses were thrown down by them, but nothing of the kind has occurred since the American occupation. Of the productions of California, gold is beyond comparison the most important; although, were this at once withdrawn, its other resources would render it still one of the richest countries on the globe. Considering the length of time during which the region has been known and partially occupied, the very recent discovery of this great natural wealth is remarkable. So lately as the year 1836, the "Penny Cyclopædia" rated its agricultural capabilities very low, and thus briefly disposed of its mineral resources: "In minerals Upper California is not rich. small silver mine was found E. of St. Ines, but it has been shandoned. In one of the rivers falling into the southern Tule lakes gold has been found but as yet in very small quantity." Eleven years later, however, the discovery of a rich deposit of gold stimulated an eager search, which has ever since been prosecuted with continually widening results, until what is now known as the gold region extends from Oregon in the N. to Kern river on the S., a line nearly 500 miles long by from 10 to 150 m. wide, covering an estimated area of from 11,000 to 15,000 sq. m. In addition to this, rich deposits have recently been discovered on Frazer river, in the British possessions, to which a large emi gration is now (Aug. 1858) going on, but which are not yet sufficiently developed to warrant any estimate of their extent. The metal has also been found in various parts of Oregon, and probably the whole range of mountains, from about lat. 50° to 85°, is more or less continu-

ously auriferous. The portion within California lies along the western slopes of the Sierra Nevada; but gold has also been found on the eastern side, and among the mountains of the coast. In the latter, its amount has been supposed to be so small that its production could never become profitable, but recent discoveries in Marin co. (near San Francisco) and elsewhere, indicate the existence of rich auriferous quartz in considerable abundance. Mining is now (1858), successfully carried on in portions of 28 counties; but the proportion of the region actually occupied to that profitably available does not yet, as we infer from the statements of Dr. Trask, state geologist, exceed 4 or 5 per cent. Operations were at first confined to the "diggings," requiring merely manual labor and some simple apparatus for separating the gold from the soil by washing. The gold thus found is generally in a nearly pure state, and in all forms from minute particles to lumps of several ounces and even pounds in weight. This species of industry is still prosecuted with vigor, and in many places deep shafts have been sunk and broad hills tunnelled in search of richer "placers," enterprises often crowned by rich rewards. But the largest deposits are found in the beds of streams, many of which have been turned from their natural channels in the search. Ancient river beds, long since dried up, are also found richly charged with the precious metal. A remarkable vein of some hundreds of feet in width, called the Great Blue Lead, in Sierra co., presents abundant evidences of being such a bed, although it has been traced through the centre of hills, and in places is crossed by large living streams or obliterated by deep ravines. Wherever traced, it is walled in by steep banks of rock, between which are sedimentary deposits of light-blue clay impregnated with arsenic, tightly packed with rounded and polished pebbles and bowlders of quartz, resting on a hard bed-rock worn into long, smooth channels. It contains throughout very large deposits of gold, of which, as in living streams, the finer particles are found at the sides and mingled with the clay, and the heavier and firmer in the centre, resting on the bed-rock. For a distance of 20 m. this bed has been worked, either on the surface or by tunnels through the superimposed hills, and found uniformly presenting the same characteristics. In the dry season the natural supply of water essential to mining is in great part cut off, and for this reason, as well as to render available mining lands at a distance from streams, canals and ditches have been from time to time constructed, amounting in 1857 to 4,405 m., at a cost of \$11,890,800, with about 900 m. more in progress. But the auriferous quartz found throughout the region, and doubtless from the disintegration of which all the deposits of "dust" have been derived, promises to be the most permanent and certainly remunerative source of the precious metal. This occurs in veins and ledges of greater or less extent, and

varies greatly in yield. An a \$15 to \$20 per ton is considered but this is occasionally many time The richest veins as yet worked Valley, Nevada co. The Allison in that locality, yields \$300 per ton. bilities of this species of mining ar imperfectly developed, since, from outlay of capital and ingenuity rebut a few years since it became | established; but the abundance of would seem to require ages to ex rock is crushed in powerful mills, extracted by amalgamation. Of the first of which were erected in 185. now (Aug. 1858) in operation 13 86 are propelled by water, 48 by a by horse power, and several more a of construction. The aggregate stamps used in these mills is 1,5 mills are situated in 16 different c chiefly in Amador, Calaveras, El De posa, and Nevada. It is quite it obtain any accurate figures showing of gold taken from the mines. The from which an approximate esti made, are the books of the custou the U.S. branch mint at San Franch show the amount shipped according ifests of the vessels leaving port, and deposited for assay, coinage, or These figures give the following res

Years.	Physicals.
1849	64,921,250
1830	27,674,846
	42,562,695
	46,566,184
	57,831,024
	51,429,693
	45,182,631
	51,142.263
	49,840,186
2001	

Total, 9 years .. \$376,191,632

What proportion of the shipments through the U.S. mint it is impose and how much has been brought a vate hands is unknown. It is est 100,000 miners have returned from to their homes, each of whom too more or less gold, and this added to manufactured into ornaments must considerably the amount as exhib deposits at the mint. It has bee by intelligent persons familiar wit merce and industry of the state entire gold product of California first discovery of the precious n less than \$600,000,000.—Nearly minerals, as well as gold, are found nia. Of these, quicksilver is the or hitherto received most attention. C of quicksilver) is found in several lo the principal mine yet opened is at den, Santa Clara co., which is bein a very thorough and scientific 1 ing 200 men. The Guadalupo same locality, put in operation ... a force of 100 men, proves very

quicksilver in the years 1854-'5-'6,),886. Silver occurs associated with opper in the quartz of the southern lso with galena and blende; and one galena is found in the primitive tion limestones abounding in Monterey amount of silver deposited at the of San Francisco, in 1855-'6, was

ces. Copper is much more widely silver, occurring in veins, conmy varieties of ore and some native A vein, strongly impregnated with rofitably worked at Hope Valley, El Iron ores are found in almost ety throughout the coast mountains, in some parts of the auriferous disariposa co. Sulphate of iron, or copound in abundance near the town of z. There is also an extensive bed of iron near the same locality. Platinum) be as widely distributed as gold; rask considers it destined ultimately leading element in the commerce te. Chrome ores are found in masst veins running through serpentine effy among the north-eastern spurs ierra Novada. The ores of nickel the primitive rocks of the coast and those of antimony in the Monte inge, the latter containing a considera-

of silver. Rich lead ores are found smardino co. Anthracite is said to an Diego, San Joaquin, Solano, Butte, cos.; mines have lately been opened in), which promise a sufficient yield to whole Pacific coast. Very fine quali-

, granite, and buhr-stone are widely Salt is manufactured from a small e Pacific salt works near Los Angeles; also numerous small salt lakes and various other points. Asphaltum and e found on the surface along the southin large quantities. Bismuth, gypsum, r varieties of precious stones, occur it the mountains. Mineral springs of sty exist; and those in Alameda, , Napa, Santa Clara, and Shasta cos. esteemed for their medicinal quali-latest estimate of the agricultural s of California gives 41,622,400 acres adapted to cultivation; swamp and d lands capable of reclamation, 5,000,ing lands, 30,000,000; total farming 322,400 acres, or 119,722 sq. m. This larger proportion of the whole surface

seem probable, from the great exed by mountains; but many portions
are available for grazing, and they
umerous fertile elevated valleys and
Captain Wilkes, in 1842, computed
s land at only 12,000 sq. m., and 10
r it was estimated at 42,420. The
sys, both on the coast and in the
generally very rich, producing in
all the fruits and cereals of the tem-

nes; and in the southern districts

nearly all the most valuable products of the tropics are cultivated with success. The wild or grows luxuriantly in the Sacramento valley and to the westward. This cures in the dry season and forms excellent fodder. The average yield of wheat, barley, rye, buckwheat, and beens, is stated at about 80 bushels each; cats, 88; Indian corn, 81; peas, 28; potatoes, in different counties, from 70 to 800. Many districts, however, produce crops very much above these averages; thus of oats and barley, from 50 to 75 bushels to the acre is said to be a common yield, and a field of 82 acres of the former, in Alameda co., averaged 134 bushels in 1856; Indian corn in Alameda, Los Angeles, and Sonoma, averaged nearly 40 bushels; in Sacramento, 60, &c. Successful experiments have been made in the cultivation of cotton, tobacco, sugar-cane, and the mulberry; and incorporated companies have been formed for the cultivation of rice in the marsh lands, which appear to be well adapted thereto, and for the production and manufacture of the sugar-beet in Santa Clara co. The production of fruits, both in variety and amount, is represented as unparalleled. The following enumeration of those of Los Angeles, on the coast, and intersected by lat 84°, will apply equally well to many other counties: apples, apricots, aloes, figs, grapes, lemons, nectarines, oranges, olives, pluma, pears, peaches, pomegranates, pineapples, quinces, raspberries, strawberries, and walnuts. The culture of the grape, and manufacture of wines. are fast becoming a leading industrial interest of the state; in the city of Los Angeles alone over 100,000 gallons of wine, of excellent quality, were manufactured in 1856. The amount of land under cultivation in 1856 was 578,968 acres; and the product of the principal staples was as follows: wheat, 8,979,082 bushels; barley, 4,689,678; oats, 1,268,859; potatoes, in 26 counties, 16,434 acres; butter, 424,836 lbs.; cheese, 257,738, &c. Number of fruit trees: apple, 320,500; peach, 619,998; pear, 59,171; cherry, 25,264; all others, 163,861; not specified, 107,994; grape-vines, 1,581,224. Among the native vegetable productions, there are numerous varieties of trees of great value, some of which attain to an unparalleled size The most remarkable are the redwood, and the mammoth evergreen coniferous trees of the Linnsan genus cupressus, or taxodium of later botanists. Endlicher, about 1850, placed the former in a new genus, naming it coquoia; and on the discovery of the latter, a few years later, classed it as another species of the same. The mammoth tree (8. gigantea, Endl.) became known to botanists about 1858, and was named by some the Washingtonia gigantes. It has been found only in small groves on the Sierra Nevada, at a height of about 4,500 feet above the sea level. The first known specimens were a cluster of 92 within a space of 50 acres, in Calaveras co., since become a resort of tourists, and named Big Tree Grove. Four other col-lections of them have been found, the largest in-

Mariposa co., containing 184 trees over 15 feet in diameter, and nearly 800 smaller ones. In all these groves there are many trees from 800 to 400 feet high, from 25 to 84 feet in diameter, and of exceedingly graceful proportions and some of the largest that have been felled indicate an age, by the ordinary mode of reckoning, of from 2,000 to 8,000 years. The wood closely resembles red cedar, with not quite so even a grain, and is very durable; the bark in some specimens is 18 inches thick, of a stringy, elastic substance, and reddish brown color. Seeds of this tree have been planted in England, the young trees, 3 or 4 feet high, are said to be growing thriftily, near the level of the sea. The redwood (S. sempervirens, Endl.), which bears a strong resemblance to the mammoth trees and is sematimes mistaken. tree and is sometimes mistaken for it, frequently grows to a height of 800 feet and a diameter of 15 feet. It is a soft, straightgrained, free-splitting, extremely durable and very valuable wood. This tree is found on the plains or mountains near the ocean, and grows in dense and large groves. The sugar pine (pinus Lambertiana) is a magnificent tree in size, and one of the most graceful of the evergreens. It grows about 800 feet high and 12 feet diameter at the base. The wood is free-splitting and valuable for lumber. It grows on the Sierra Nevada. Instead of emitting the resinous substance of the ordinary pine, it furnishes a saccharine sap, which by evaporation becomes granulated and crystallized, and has very much the appearance and taste of common sugar. The Douglas spruce (pinus Douglasii), the yellow pine (pinus brachyptera), and the white codar (libocedrus decurrens), are all large trees, growing more than 200 feet high and 6 or 8 feet through at the butt. The wood is coarse-grained and is not valuable for joiner-work. The nut-pine (pinus edulis), the cones of which contain edible seeds about the size of the kernel of a plum stone, grows on the coast mountains and at the base of the Sierra Nevada, and is of little value. The California white oak is a large, wide-spreading tree with a crooked trunk, and is of no value except for fire-wood. Among the other trees and shrubs found in California, may be mentioned the evergreen oak, the maderone, manganita, willow, sycamore, bay-tree, cotton-wood, horse-chestnut, live oak, spruce, fir, cedar, ash, beech, and other trees of commercial value. The almond grows wild in the coast mountains in Santa Clara co. A wild coffee tree, bearing a berry much resembling the real coffee, grows in Calaveras co. Edible berries of various kinds abound in some portions of the state. There is also a great variety of indigenous grasses. Many species of California trees and shrubs bear a strong resemblance to species found in the Atlantic states and Europe, but they are not the same, and many of the trees of other parts of the conti-nent do not grow in California. The botany of the state generally presents peculiar charac-

teristics, offering a highly scientific investigation. world offers better facilities for wool-growing than a great p and considerable enterprise is an in that direction. The following of the number of domestic anim cattle 684,248, horses 109,991, 80,641, sheep 258,812, goats 4,5-585, poultry 266,886. The wh prosecuted to a small extent on th salmon fishery of the Sacramento over a distance of 50 miles, emple 150 boats, 400 men, and a capita number taken, about 450,000, av 15 lbs. each; total value estimate The native quadrupeds of Calif-merous, of which the principal ly and other bears, cougar, wo wildcat, the cuyote (an animal l and a wolf), moose, elk, antelo sheep, deer, lynx, fox, badger, 1 mot, hare, rabbit, squirrel, &c. ing animals, the sea and land otte and muskrat. Of birds, vultures the golden and bald eagle, tur hawks of various kinds, gerfalco shrike, robin, thrush, lark, magp pecker, humming-bird, swallow, lew, goose, duck, penguin, pelic and various other game and s fishes, the sturgeon, bass, macl crawfish, blackfish, clams, oyst crabs, halibut, sharks, trout, s sinelts, sardines, salmon—the last abundance to be articles of ex and cattle roam wild in grover the uncultivated districts the discovery of gold the hides furnished almost the only artic -Perhaps the most wonderful of markable natural curiosities of (Yosemite valley or dell, with its sur cades and mountain peaks. The valley is sometimes written Yo Yohamite; but Yosemite is the more generally adopted. It is writers who have recently visited ing scenery unmatched for wild beauty and sublime grandeur. nearly east and west. It is about and nearly 8 miles wide in the which it decreases in width encl bounded on all sides by walls of yel from 2,000 to 4.500 feet high, precipitous, and in places perpend the valley is accessible only from here within a radius of 5 or (cascades ranging from 850 to height, and as many rocky me whose height ranges from 2,900
"The valley," says a recent visite
in the Sierra Nevada, watered fork of the Merced river, w h, a low, makes its way thro ... he deep and dark gorges, s

except when it passes through the meadow." The scenery from the rlooking the valley is represented as it. Entering at the western end, the ched by a circuitous and precipitous 2,500 feet, new and beautiful views themselves every few minutes. The inly a level sward of luxuriant grass d with ferns and bright flowers, with there a few oak, pine, and other trees. reek about 70 feet wide empties itself 3. wall of the valley 940 feet perpenforming the Rainbow cascade, so the beautiful rainbow colors which mist floating about it. On the N. e valley, nearly opposite and about ‡ distant, stands "the Captain," a rock ; into the valley, and rising up per-rly 3,090 feet. A little further E, on side of the valley, stands Signal rock, ak is 2,928 feet high. Four miles Rainbow, on the N. side, are the he Yosemite. Here the creek leaps 63 feet in 3 falls, the 1st being about the 2d 250, and the 3d about 450. height is concerned, the Yosemite, s called by the Indians the fall of is no doubt the most extensive wateriscovered; but from the limited volhe stream it is said to be less impreshe beholder than Niagara. As seen nce it is said to resemble somewhat

et of white satin hanging over the the S. side of the valley, opposite the fall, stands Pyramid rock, 3,200 feet eak which receives its name from its shape. Three miles further up, near of the valley, is Lake Mirror, a beaut of water containing about 8 acres; he N. side of this lake stands a huge ed the North Dome, 3,630 feet high, anted by a dome-like knob. On the

ding a little back from the lake, is Lome, which towers high above all 78, rising up perpendicularly on its face 4,481 feet. "Its abruptness," face 4,481 feet. ye-witness, "is almost inconceivable, randeur indescribable." The S. fork erced comes down through a gorge ies into the valley on the S. side. 3, which is ascended with great diffiout one mile from the dell is the Vermopah fall, where the Merced, about wide, falls 350 feet into a basin sury large evergreen trees. Half a mile p this stream is the Nevada or Awanee t 700 feet high, for half of which diswater falls in a perpendicular sheet, strikes a steep cliff which breaks it wy, feathery spray, whence it leaps bottom. About 2 m. W. from the

bottom. About 2 m. W. from the usil is another cascade called the , about 600 feet high, and exceedult of access. "No description," tourist already quoted, "can conclear idea of the great variety of

scenery in the valley. There are a thousand nooks and corners and woody dells, every one of which is full of enchanting picturesqueness. The rocky cliffs take all manner of queer forms, sometimes resembling pyramids and cones; again resembling castles, domes, chimneys, and spires. In one place there is a narrow cleft several hundred feet deep in one of the rocks, as though some giant had com-menced to split off a part of the mountain, and had left his work unfinished." The valley is not inhabited. A few years ago it was the home of a small band of warlike Indians, but they have all disappeared. It is understood that it will be settled soon, and that houses of entertainment will be erected for the accommodation of tourists, for whom it may yet become a famous place of resort. The valley was first entered by a white man in 1848, and afterward at various times from 1850 to 1852; but it attracted no notice from the press till 1854, and did not become a place of resort till 1856. The geysers of Napa co., about 60 miles north of Napa City, are also remarkable natural phenomena. They are a collection of hot sulphur springs, the water of which is continually in a boiling state, and is in several places thrown into the air to a height of 10 or 15 feet. Hundreds of fissures in the sides of the mountains emit strong currents of heated gas, accompanied by a roaring noise, as of the blowing off of steam from an immense boiler. "Beneath your footsteps," says Prof. Sheppard, "you hear the lashing and foaming gyrations, and on cutting through the surface are disclosed streams of angry, boiling water." The Buttes are a small detached range of mountains in Sutter co., about 12 m. in length by 6 in breadth, and containing perhaps 20 peaks; the highest of which, and the most interesting, is that on the N., which is a very steep cone, surmounted by a turret-shaped rock 56 feet high, and has an elevation of 2,483 feet. This commands an extensive view from the Coast range to the Sierra Nevada, and for perhaps 80 m. up and down the Sacramento. In Calaveras co. are 2 natural bridges across the Chyote creek, near Vallecita—immense arches, their surface appearing as if carved into clusters of fruits and flowers, doubtless the result of volcanic action. The Chyote cave, in the same locality, is entered by a perpendicular descent of 100 feet; thence it proceeds by a gradual slope to a depth of nearly 200 feet, where is a chamber containing 2 stones resembling bells, which, when struck, emit a chiming sound, whence the apartment has been named the Cathedral. Descending another slope of 100 feet, a lake is reached of great depth and apparently covering many acres, beyond which the cave has not been explored. The mammoth-tree groves, elsewhere mentioned, are entitled to be ranked among the most attractive of natural curiosities. From its great diversities of surface and general physical peculiarities, California presents innumerable examples of picturesque scenery and ob-

jects of interest to devotees of nature and of scientific research.—The industrial interests of the state, of course, centre in the gold mines, in which probably one-half the entire population are employed. In connection with this department of industry there is a branch of the U.S. mint at San Francisco, put in operation in April, 1854, at which there had been coined up to Jan. 1, 1857, \$58,266,787 in gold, and \$373,568 in silver, beside large amounts of both assayed and run into bars. There are several private establishments for the assaying and refining of gold and other metals, and the extraction of gold from the "tailings" of quartz, or such as, from the admixture of extraneous substances, cannot be reduced by amalgamation at the quartz mills. Manufacturing industry has hitherto been confined to those departments required by the more pressing local wants, but in some of these great enterprise and activity are being developed. During the first years of the settlement the neglect of agriculture necessitated an almost entire dependence on importation for breadstuffs, and even vegetables, and the price of flour frequently ranged from \$20 to \$30 and \$40 per barrel. Already, however, the case has been reversed, and flour has become a staple export. There are 131 grist mills, 67 propelled by steam and 64 by water power, with 270 run of stone, erected at an estimated cost of \$2,400,000, and capable of producing 2,174,960 barrels of flour per annum, several times the quantity necessary for home consumption. The manufacture of lumber is also an important branch of industry and of commerce. There are 873 saw-mills, 171 propelled by steam and 202 by water; estimated cost, \$2,500,000; aggregate capacity, about 500,000,000 feet per annum. The most extensive lumber district is the vicinity of Humboldt bay, in the N. W., whence the export trade is mainly supplied. There are 14 iron founderies and machine shops, adapted to the manufacture of all kinds of steam and other machinery, and of a capacity to supply all demands; 18 tanneries; an extensive sugar refinery at San Francisco, employing 150 hands, and supplied with raw material by a special line of clipper barks from Manila, Batavia, and other Pacific ports; a cordage and oakum manufactory at the same place, on the largest scale; a large paper-mill in Marin co.; 4 large distilleries and 104 breweries, but most of the latter are small local establishments. The trade and travel between San Francisco and the interior are carried on by steamers of large size to Sacramento and Stockton, and by smaller ones beyond those points, all of which have been built in the state. Ocean ship-building is also beginning to be prosecuted to some extent at San Francisco. The U. S. government has a navy yard at Mare island, San Francisco bay, the only one on the Pacific coast, which, if completed on the scale projected, will cost \$15,000,000 or \$20,000,000, and be one of the most commodious in the world. It already affords conveniences for all necessary docking

and repairs both of the naval marine.-The commerce of Calif. carried on through the port of which ranks as the 4th city in point of commercial importance. ploys a large number of ocean st 900 to 8,000 tons burden, conne Atlantic by railway via the isthm and by land and water transit th gua. Beside these steamers, muling vessels of all descriptions arr daily. In 1852 there arrived 71 a tonnage of 261,852, and cleared 860,872, about 1 of which were tonnage for the year ending J was as follows: arrivals, dom tons; foreign, 46,603—total, 148 ures, domestic, 213,884; foreig tal, 262,751. Of American citi York, Boston, and New Orleans amount. Number of passengers Francisco from April, 1849, to D. 860,118; excess of arrivals ov from 1852 to 1856, 82,969. The f of 1856 amounted to \$9,155,501; c 108. Total duties collected from 31, 1856, 81 years, \$15,485,766. of the chief articles of domestic] than gold, in 1856, were as f \$765,212; oats and barley. \$132,307); potatoes, \$1,292 (1 wheat, \$66,370 (1855, \$92,686); 661; lumber, \$48,818; quicksil &c.; total exports, \$1,782,608 ing a considerable amount of h the value is not returned, and articles. - But one railroad 1 built, from Sacramento to Folse which was opened Feb. 22, 1856 struction, \$1,200,000. This re eminently successful since its ope designed to extend it to several o towns, arrangements being now i a northern branch to Marysvill Wagon roads have been constru ramento, Marysville, Stockton, & cipal points in the mining region Stockton connects with the from San Bernardino to Sal a distance altogether of 1.100 are 2 lines of magnetic telegration, with an aggregate comm 560 miles. The canals and ditcl purposes have been elsewher For a railroad connecting Calir with the Atlantic states, 5 or 6 d have been surveyed or explored, 2,000 m. in length, and varying cost from \$94,000,000 to \$170,6 gress has made a liberal app the construction of two wagon to the conveyance of mails at which are in progress, and a thalready in operation over the nating at San Diego. A thi magnetic telegraph is also in it

-A state lunatic asylum was eson, by act of the legislature, ngs are commodious and will 100 acres of ground handman out; on the 1st of January, 1857. were 172 patients-142 males and 80 : expenditures for the year, \$180,746. .U.S. marine hospital at San Francisco, for which cost \$224,000, and is ca-# mmodating 800 patients; number and 168 remained on Jan. 1, 1857; expenditures for the year, \$48,774. There is also a hopital fund provided by the state, which is eportioned to the different counties, and expeded by the boards of supervisors for the supet of the indigent sick; the expenditures from this fund for 4 years ending June 80, 1856, were \$1,066,462, of which \$141,168 was disbursed in the year 1855-'6; the supervisors orized, when necessary, to levy in ad-special local tax for the same purpose. te prison is located at St. Quentin, a w., 12 miles from San Francisco; the er of convicts, Jan. 27, 1856, was 475. u public libraries, that of the state at Seramento has 11,000 volumes; Santa Clara tollege, San José, 10,000; mercantile associaton, San Francisco, 8,000; 10 others at San Francisco, 12,750; 5 in other places, 5,250, beide several whose numbers are not given .-Liberal provisions have been made for education, although the number of youth is, as yet, extremely small in comparison with other communities. In 1851 the legislature, in compliance with a provision of the constitution, passed mact establishing a system of public schools; but very few schools were established in the state previous to 1853, and even then, with a population of 300,000, there were only 53 pub-lie schools in the state. The following table will show the development of the system since that time:

1 1,422 2 1,801 8	127 801 313 889	58,511 11 89,104 78 52,937 81 52,014 80 58,520 83
	1422 S	- 168 214 1429 227 801 1,801 818 889

In 1853, 16 of the 45 county superintendents in the state failed to report; in '54, 7; in '55, 8; in '56, 2; and in '57, only 1 failed to make returns. The 500,000 acres of land given to the state on her admission into the Union, for purposes of internal improvement, were transferred to the school-fund. The 16th and 36th land sections (640 acres each) of every township stanted by congress to support common schools amount to about 6,000,000 acres in the state, and with other special donations, including 72 sections for a state university, not yet organized, the school lands amount to 6,800,000 acres, or 10,635 sq. m. The formation of a school fund has been commenced by the sale

of about 288,000 acres of these lands, netting \$466,000, to be increased by the proceeds of the remainder as sold, which is invested in bonds of the civil funded debt of the state, bearing 7 per cent, interest, To the income of this fund is added 1 of the receipts from poll-taxes, and the proceeds (when there shall be any) of the sales of all escheated estates. In addition to these resources, the counties are authorized to levy a special tax, from which a considerable amount is raised. The amount appropriated for school purposes in 1856 was \$150,977 09, of which \$82,014 80 was from the state, and \$68,962 29 from the county funds. No public money is paid to denom-inational schools. In San Francisco, Sac-ramento, and several of the larger towns, the public schools are entirely free; but in other districts deficiencies in the public fund are made up by the patrons of the schools. A state superintendent of public schools is elected by the people for a term of three years, with whom are associated the governor and surveyor-general to form a state board of education. There are also county superintendents and district trustees. The enumeration of the children for school purposes includes those between the ages of 4 and 18 years. The salaries of male teachers in the public schools range from \$65 to \$180 per month, and of female teachers from \$50 to \$100 per month, the highest salaries being paid in San Francisco. The schools of San Francisco and Sacramento are said to be very good, while those in the mining districts are about equal to the common schools of the western states. There are many schools not supported by government, which are attended probably by 8,000 pupils during 10 months of the year. Among these schools, the most prominent are the Jesuit high school for boys in Santa Clara, and the seminaries for young ladies kept by the Catholic order of the sisters of mercy in San José and Benicia. There are 2 incorporated colleges in Santa Clara co., viz., the Santa Clara college, founded by the Jesuits in 1851, on the site of the old mission, with 118 pupils, and a library of 10,-000 volumes, containing many rare and valuable works; and the university of the Pacific, founded by the Methodist Episcopal church in the same year, comprising male and fe-male departments, with 90 students in the former and 50 in the latter. There are 120 newspapers and periodicals published in the state, of which 27 are issued daily, 72 weekly, 16 semi-monthly, 4 monthly, and 1 quarterly; of these, 7 are in foreign languages, 2 French, 2 German, and 2 Spanish; 82 are issued at San Francisco, 7 at Sacramento, 5 at Marysville, and 3 at Stockton; their aggregate annual issue is estimated at 18,850,000 sheets; 14 counties have no papers.—It is quite impossible to obtain full statistics of the various religious denominations and societies in California. There are a great many scattered churches which have no connection with other associations of the same kind, and there are several sects with a number of churches whose statistics have never been compiled by themselves. The attainable church statistics of the state are as follows:

Denominations,	Communicants.	Churches.	Clergy- men,
Methodist North	2,500	59	63
Methodist South	1.600	20	40
Presbyterian, Old School	1,000	15	17
Presbyterian, New School	500	1 11 1	13
Congregationalist	600	l ii l	13
Baptist	1,000	43	20
Episcopalian	550	18	15
Unitarian	70	1	1
Total Protestant	7,520	176	180
Catholic	80,000	68	69
Hebrew	10,000	8	1
Total	97,820	245	2:0

The Cumberland Presbyterians and Campbellite Baptists have each a number of congregations The estimate of Catholics inin the state. cludes all who attend the Catholic churches and their children; and the estimate of the number of Hebrews includes all of Jewish blood, many of whom neglect the observances of their There is but 1 regularly ordained rabbi in the state, but a number occasionally officiate as such. It is estimated by intelligent residents of California that at least # of the population of the state are Protestant by education and sympathy, though not by church membership. The average attendance at the Protestant churches is said to be 5 or 6 times greater than the number of communicants; and the number of congregations who occasionally meet for worship far exceeds the number of church buildings. The Chinese, mentioned elsewhere, are nearly all Buddhists. The Indians, with very few exceptions, are destitute of any creed beyond a vague belief in the Great Spirit and unseen powers, and a profound reverence for their medicine men.—The constitution of California is similar in its general features to those of the older members of the confederacy, although differing from many of them in some of its details. By its provisions, all legal distinctions between individuals on religious grounds are prohibited; the utmost freedom of assembling, of speech, and of the press is secured, subject only to restraint for abuse, and in trials for libel proof of the truth of the charge and of good intentions is a bar to damages, the jury deciding upon the law and the fact; foreigners who are bona fide residents are secured the same rights in respect to property as native-born citizens; there is to be no imprisonment for debt, except in cases of fraud; slavery and involuntary servitude, except for crime, are expressly prohibited; wives are secured in their separate rights of property, independent of their husbands' control; a certain portion of the homestead and other property of heads of families is to be secured by law from forced sale. Among the restrictions on legislation are the following: No public debt shall be created exceeding at

any time the sum of \$300,000, except upon a specific vote of the people, and then with certain prescribed limits; no divorce shall be granted by the legislature; lotteries and the sale of lottery tickets shall not be allowed; ex-porations or joint-stock companies may be formed under general laws, but shall set be created by special acts, and the members thereof shall be individually liable for corporate debta; no charter for banking purposes shall be granted, and the circulation of paper money in any form is prohibited; the credit of the state shall not be loaned to any individual or corporation, acc shall the state directly or indirectly become a stockholder in any corporation. The right of suffrage is conferred on all citizens 21 years of age, not convicted of crime or idiotic, resident 6 months in the state and 80 days in the county or district. The legislative department consists of a senate elected for 2 years, and an assembly for 1, the former consisting at present of 33 and the latter of 80 members. All citizens resident 1 year in the state, and 6 months in the district, are eligible to membership. The executive department consists of a governor, lieutenantgovernor, comptroller, treasurer, attorney-gua-eral, surveyor-general, and superintendent of public instruction, chosen by the people, the last for 8 and the others for 2 years, and a meretary of state appointed by the governor and legislature. The qualification of all for eligibility is an age of 25 years or over, and a citizenship and residence in the state of 2 years. The judiciary consists of a supreme court with justices, elected by the people for 6 years, having appellate jurisdiction in civil cases where the amount in dispute exceeds \$200, in questions of the legality of taxes, &c., and in criminal cases amounting to felony; district courts (not 15 in number), with 1 judge each, elected for 6 years, having original jurisdiction in law equity in civil cases where the amount exc \$200, and unlimited jurisdiction in all c cases not otherwise provided for, and in of fact joined in probate courts; county c consisting of 1 judge in each county, ea for 4 years, who performs the duties of gate or probate judge, and, with 2 judge, and, with 2 judge, the peace, holds courts of special session such a number of justices of the peace in county, town, city, or village, and with = powers, as the legislature may direct. are fixed as follows by act of April, 1856, w in most cases reductions from former rai governor, \$6,000; comptroller, treasurer, # intendent of public instruction, and secre of state, each \$3,500; surveyor-g attorney-general, each \$2,000; sup **~**0,00-judges, \$6,000; district judges, fr At ure, \$5,000; presiding officers of the per diem, members \$10 for the fless and days a \$5 thereafter, and mileage at the rate of every 20 miles travelled .- Revenue (exc of that for school purposes) is raised by the tion upon real and personal property, while yielded in 1856, \$655,315 45, at the rate of the school of the sch

, the total assessed valuation being 97; by a poll-tax of \$3 on every een the ages of 21 and 50; and by a tax on merchants, bankers, places t, foreign miners, &c. The receipts ment of the state, from 1855 to e, were as follows:

Receipts	Disbursements,
\$1,155,537 10	\$1,887,496 64
723,239 83	
1.152.284 00	699,808 00

for 1857 were from the following perty tax, \$695,749 95; poll tax, foreign miners' licenses, \$154,660 enses, &c., \$226,796 04. The debt n March, 1858, was as follows:

per	cent	inte	rest wit	h interest.	\$6	888	95
per	cent	due	1860		.150,	,000	00
	46	64	1970	• • • • • • • • • • • • • • • • • • •	1,859.	600	00
*	44	44	۴		.700	000	00
4	4	4	1875		.984	000	00
					218	020	91
a to	schoo	ol fu	nd		464	000	00
iptr	oller's	Wal	Tants		.404,	447	18
-							

! the state......\$4,810,956 98

ernment commenced its functions nfavorable financial circumstances. ures of every branch of the admine enormous, and there was very perty held under secure title, and innent population from which to The consequence was resort to The emission of paper ystem. form of bonds and warrants, which converted into cash at a heavy iderably increased the expenditure The state constitution had the legislature, after its first sesreate no debt greater than \$300,000 oned by a popular vote of the e of the debts before mentioned ed to the people, and the supreme in one case that the want of that a debt created after 1850 rendered n whereby it was created unconnd the court intimated that all the l after 1850 were illegal. In the 357 the people by a popular vote all the state debts should be paid; in favor of payment, and 16,970 on. During the year 1857 the the treasury for the first time disbursements, and on Jan. 1, vas a surplus of \$450,000 in the addition to the state debt, the utstanding bonds (in 1857) to the 35,668,903, and various counties thich added to the debt of the state hole public indebtedness of Cali-18,090. The state owns the tide that portion covered by water iter mark to the channels of bays nd 3 m. into the ocean; also the overflowed lands of the state, about 5,000,000 acres.—The etyne name California, according to San Francisco, is uncertain; some asserted that it comes from the

Latin words calida and fornax, Spanish calients fornalla, a hot furnace—while others of high authority question this origin of the word. Other Latin derivations have also been suggested, but for the most part with little plausibility. It is probably a corruption of the original Indian name. The name California is first found in the writings of Bernal Diaz del Castillo, an officer who served under Cortes in the conquest of Mexico, and by him limited to a single bay on the coast. In some of the early English maps California is called New Albion, having been so named by Sir Francis Drake, who touched on the coast during one of his buccaneering expeditions in 1579. A century later it was called Islas Carolinas (supposed then to be an island), in honor of Charles II. of Spain; but subsequently the original name was revived and universally adopted. Lower or Old California was discovered as early as 1584 by Zimenes, a Spanish explorer; but the first settlements were made much later, in 1683, by the Jesuit missionaries. The precise date of the discovery of New or Upper California is uncertain; but it was subsequent to that of Old California, and the first mission (San Diego) was founded as late as 1769. Other missions and presidios were established in the following years, and the government of the country, both spiritual and temporal, was intrusted to certain monks of the order of St. Francis. The bay of San Francisco was discovered about 1770, and a mission was established there in 1776. In 1808. according to Humboldt, 18 missions had been established with 15,562 converts. Three more missions were subsequently established, and in 1881 the entire population is stated by Forbes in his history of Upper California at 23,025 (exclusive of unconverted Indians), of whom 18,688 were Indian converts. The same writer infers that for several years thereafter the population re-mained stationary. It seems to have been the policy of the ecclesiastical rulers to prevent the settlement of the country as far as possible, deeming such course best calculated to advance the object they had in view, viz., the conversion of the savages. The produce of the country in 1831 was, wheat 62,860 bushels, Indian corn 27,816, barley 18,512, beans and peas, 6,816, the entire crop being valued at \$86,-284. Of domestic animals, there were 216,727 cattle, 82,201 horses, 8,021 mules and asses, 153,455 sheep, and 2,712 goats and swine. There were at the same time many wild cattle and horses in the country. At this date a good mule or saddle horse was worth \$10; a mare, cow, or fat ox, \$5; a sheep, \$2. The missions had been declining in wealth and power since 1824, in consequence of the interference of the Mexican government with the vested rights of the fathers, which finally resulted in the practical confiscation of the church property. The following statistics of the missions during the period of . their greatest prosperity, are collected from the Rev. Walter Colton's "Three Years in California":

Musions.	Cattle.	Hornes.	Sheep.	Mules.	lioga,	Morrha's and Specie.
Ban Francisco Dolores	8,050	8,034	79,000	820	2,000	\$60,000
Banta Clara	97.057	5,940	82,000	720	1,000	190,000
Jan José	62,310	2,340	62,000	420	-	I —
San Juan Bantista	44,512	6,230	69,530	-	_	95,000
Ban Carlos	90,630	19,000	5,400		_	40,000
Banta Cruz	42,000	8,200	72, 00	200	_	25,000
Soledad	86,300	6,000			_	_
San Antonio.	58,500	4,500		600	1,000	_
Ban Miguel	91,340	4,100	47,000	2,000		_
San Luis Obispo	87,000	5,500	72,000	8,700	_	_
La Purissima	40,800	6,600	80,000	-	5,000	-
Santa Barbara	40,160	8,000	20,000	600	-	_
San Buena- ventura	87,400	1,900	80,000	500	2,000	123,000
San Fernando	56,900	1,500	64,000	200	2,000	140,000
San Gabriel	70,210	4,210	54,000	4/11)	_	
San Luis Rey	70,250	2,000	65,000	800	-	
Total	05-7503	78,244	878,490	10,460	18,000	\$603,000

In addition to these missions, there were Santa Inez, possessing property valued at \$800,000, and San Juan Capistrano and San Diego, which were reputed to be among the most opulent of the missions. The Spanish power in California was overthrown by the Mexican revolution in 1822, and though the government of that country changed frequently, all administrations agreed in the policy of secularizing the government of California, and the fathers were finally stripped of their possessions and their former dignity and influence. The centralization of power at the federal capital, under the first administration of Santa Anna, caused a rebellion in California which resulted in the expulsion of the federal officials, and a declaration of independence on the part of the Californians; but in the following year, when the excitement had subsided. the people came back to their allegiance, and quietly submitted to the new order of things. The settlement of the country began to advance, particularly from the immigration of foreigners, the people of the United States being largely represented. In 1842, Com. Jones, of the U. S. navy, under the impression that the United States were at war with Mexico, took forcible possession of Monterey, hoisted the stars and stripes, and proclaimed California U. S. territory. Discovering his mistake the following day, he hauled down his flag, and made such apology as the circumstances would admit. During the years 1843, '44, '45, and '46 many thousands of emigrants from the United States settled in California; and while the country was rapidly becoming Americanized, in April, 1846, war was declared between Mexico and the United States; but before the news of this event had reached California, a quarrel arose between the Mexican officials and the American settlers, in which the Mexican commander attempted to expel the settlers from the country. This resulted in quite a general uprising of the Americans, a declaration of independence, and an active and energetic warfare against the Mexican authorities, which, under the lead of Col. John C. Fremont,

by a few rapid ъ ly subdued the curry, w Sloat, of the U. S. may, arrived a with intelligence of the declarati and with assistance to the Amer A few days later, Com. Stock with additional assistance, took c the American forces, and at the he 300 men marched on the capital, l which he took without firing a Castro with a greatly superior for fled to Sonora on his approach. Si claimed California a territory of States, proceeded to establish a prov ernment, and the country was app quered; but the Mexican forces s rallied under Gen. Flores, recaptur geles and Santa Barbara, which strongly garrisoned, and met with slight temporary successes. collected his forces, and marched whom he defeated, with very slign American side, in 2 battles, at Rio! Jan. 8, and on the plains of the 1847, which practically terminated for the mastery in California. Th peace soon followed, by which Ca certain other territory were ceded ed States for the sum of \$15,000,0 close of hostilities the white pop estimated at 12,000 to 15,000. It of Feb. 1848, gold was discovered erty of Col. Sutter, in Coloma onews spread rapidly. Men left their all kinds, and rushed to the locality Ophir, and it was soon found the widely distributed throughout the ple flocked in from Mexico, from 8 ca, from the Atlantic states, from from China. The emigration was: paralleled. In a very short time Cu tained a mixed population of nearly a million of energetic, daring, reckle gerous people. A substantial gov came necessary. Gen. Riley, the delegates, to meet at Monterey, & to frame a state constitution. The met, and after about 6 weeks' co agreed on a constitution, which wa to the people, by whom it was ador Sept. 9, 1850, California was admit union of American states by act of Gambling became almost a unive among the Californians. Whole s devoted exclusively to it in San Fr it is said that as high as \$20,00 risked on the turn of a card, and \$5, \$2,000, and \$1,000 were repeated! fortunes were lost and won in a few a coolness that amounted almost to Prices for all sorts of goods and ser fabulous figures. The smallest chan quarter dollars, and no service w for less than 50 cents. Admission ranged from \$3 for a seat in the pit

box. Board was \$8 per day, or week, the most indifferent being ur and pork rose to \$40 per bbl. and brown sugar 871 cents per lb., and sesaries in proportion; common coarse) to \$40 per pair, and superior high-oots, \$100. Laborers' wages were ur, and skilled mechanics' from \$12 to ay. Lumber rose to \$500 per 1,000 ints were correspondingly high: a ame building, known as the Parker nted for \$120,000 per annum, } of as paid by gamblers, who occupied entire 2d story; \$3,000 per month for a single store of limited dimen-I rudely constructed of rough boards; rado, a canvas tent of moderate size, s gambling saloon, rented for \$40,000 , and \$7,000 per month was paid by ument for a custom house. From 8 to it, per month with real estate security for money. People paid these enor-, rents, and interest, and still accuminense sums for themselves. Real e enormously, and rapid fortunes were speculators in houses and lots. Asa course, among the emigrants to Calire a large number of outlaws from all the world, but mainly from Australia Jnited States. In the earlier history gging there were no efficient means for administration of justice. Lynch law ted to in many parts of the country y vigilance committees were established ief towns, by whom thieves and murere arrested, summarily tried, and if l, hanged. In San Francisco, in 1851, the forms of incendiarism, burglary, and murder, increased to such an extent, that the public became imvith the idea that the courts were the n and refuge, instead of the terror of nd a vigilance committee which had viously formed took 2 men, M'Kenzie taker, from the city prison and hanged the street. For a time thereafter, crime to be less rampant; but dreadful revailed in the city government, and 1855, Mr. King established the "Bulwspaper, in which he criticized in se-

he action of the city government, meated particularly on the character named Casey (who had served a term I. Y. state prison), a member of the supervisors, and whose influence over ical caucuses of his party was potent, sharged with selling nominations for a d with furnishing bullies and ballotars to elect his nominees; and also with gthe passage of fraudulent bills through d of which he was a member. On May y murdered Mr. King by shooting him treet, and then gave himself into the authorities. The vigilance comwhich had never been disbanded, was into active operation. The city prison

was strongly guarded till the 18th, when a formidable force from the committee demanded Casey, who was surrendered by the sheriff and taken to the cells of the committee. Cora, a gambler, who had shot Mr. Richardson, the U. S. marshal, was also taken from the prison, and after trial on the 22d, they were both hanged in front of the committee's rooms, the people and press of California very generally sustaining the proceeding. The vigilance committee had its constitution and appointed an executive committee, to whose supervision the general management was intrusted, and which performed its functions with the utmost quietness and dignity. One of the provisions of the constitution was, that no person brought before the committee should be punished with-out a fair trial and conviction. The committee provided itself with arms and ammunition, drilled its forces, fortified its head-quarters, constructed cells for prisoners and apartments for its various necessities. It arrested and tried rogues and dangerous men, some of whom were hanged, some transported, and others acquitted .- A notorious person, called Yankee Sullivan, committed suicide while the committee were deliberating on his case. On June 2, a writ of habeas corpus was issued by Justice Terry, of the supreme court, for the rescue of Mulligan, a prisoner in the hands of the committee. No attention was paid to the writ, and on the following day Gov. Johnson proclaimed San Francisco in a state of insurrection, ordered out the militia of the city, and commanded the vigilance committee to dis-band and disperse. Very few of those opposed to the proceedings of the committee responded to the call, and practically the power of the state was, for the time, in the hands of the committee. The governor called on Gen. Wool for U. S. troops without success, and also on the president of the United States In the mean time the committee continued their labors, banishing prisoners to the Atlantic states, to Australia, and the Pacific islands. On June 21, they captured a quantity of state arms in transit from Benicia to San Francisco, and intended for the use of the governor's militia. A force from the committee was sent to arrest a Mr. Maloney. He was found in company with Judge Terry, who opposed the arrest, and in so doing danger ously stabbed Mr. Hopkins, one of the committee's police. The judge was subsequently arrested by the committee and held a prisoner till the recovery of Mr. Hopkins, when he was released or tried and acquitted. A few weeks later the committee surrendered its power, having, during its extraordinary administration of public affairs, tried and disposed of some 80 cases brought before them; 4 of their prisoners were executed, 1 committed suicide while his case was under deliberation, and most of the others were banished from the state. The prooeedings of the committee were attended with heavy expense, which was borne by voluntary contributions. The ensning election resulted

in the choice of city and county officers favorable to the committee, and the city has been comparatively quiet and orderly ever since. A number of suits for damages have been commenced against members of the committee by certain parties who had been expelled.—The elastic energy and unconquerable enterprise of the people of California have been strikingly illustrated in the rise, progress, repeated destruction, and rapid resuscitation of her principal towns. In the earlier history of the gold fever, when the principal mercantile operations of California were conducted in canvas tents or rudely constructed wooden buildings, the chief towns were frequently destroyed by fire or flood, or both. Ere a month had passed after one of these destructive visitations, other buildings would take the places of those destroy ed, and apparently all traces of the fire would be lost in the bustle and business activity of the town. San Francisco, the metropolis of California, has been six times nearly destroyed by fire. Sacramento, and other large towns, have also suffered in the same way. The to-tal loss by fire in San Francisco alone has been estimated at \$20,000,000, yet the growth of that town is without a parallel on this continent.

CALIFORNIA, GULF OF (Sp., Mar Bermejo, or the Red sea), a gulf of the Pacific, which separates the peninsula of California from the Mexican states of Sonora and Cinaloa. It is about 700 miles in length, and from 40 to 100 in breadth. Its coast is indented with many small bays, and numerous islands stud its surface. The rivers Colorado and Gila discharge their waters into its upper extremity, and the villages of Loreto, La Paz, and Guaymas are situated on its shores. This gulf has been celebrated for its pearl fishery.

brated for its pearl fishery.
CALIFORNIA, LOWER, or OLD (Sp., Baja, or Vieja California), a department and peninsula of the Mexican republic, situated on the W. coast of North America, and having Upper or New California N., Sonora and the gulf of California E., and the Pacific ocean S. and W. It is about 750 miles in length, and from 80 to 150 miles in breadth. This region is of volcanic origin, and is traversed throughout by the Sierra Nevada range of mountains, which attains in some places to an elevation of nearly 5,000 feet above the level of the sea. These mountains are in general barren and desolate near their summits; but at their base, cactuses of extraordinary size are to be met with, and such of the valleys as have a sufficiency of water are of exuberant fertility. The climate is variable. The summer temperature on the coast of the Pacific ranges from 58° to '10'. The sky is remarkable for its trans-parency and deep azure color, save at sun-set, when it is often variegated by the most beautiful shades of violet, purple, and green. In winter there is heavy rain and terrific torna-does of wind, which sweep the soil from every exposed position into the sea, and force the cultivator to seek a new locality. The vegetable productions of Lower Calimaize, wheat, beans, peas, manio oranges, lemons, citrons, prunes, datains, and pineapples. The chief as wild sheep, goats, horses, horned cat and pigs. The adjoining seas are an abundance of excellent fish. I pearl fishery in the S. part of the gu fornia, which in 1851 employed 15 produced pearls which were worth It is said that valuable gold mines this peninsula. The chief towns are the capital, and Loreto. Pop. in 181 Lower California was discovered by Lower California was discovered by Lower California was discovered by formed establishments here, and instruction; but in 1767 they were exithe destinies of California commit guardianship of the Dominican the city of Mexico, who were very following in the footsteps of their sors.

CALIGNY, JEAN ANTÉNOR HI French engineer, member of a Frei which has produced a great numb engineers, born in 1657, died in 1731 present at the sieges of Valenciennes Courtrai, Furnes, Dixmude, and ever came director of the fortifications of where he superintended the construc canal of that name. During the bor of Calais by the English, he decided t the battle by the 2 forts, Fort Rong Vert, successively thrown up in such as to arrest the progress of the hos Again in 1706, after the battle of Ra frustrated the plans of Marlborough the two banks of the canals of Le of Bruges to be inundated, althou estates were the first to suffer from the tion. He also constructed the gre: the Aar, at Gravelines, and 8 forts wit at Furnes.

CALIGULA, CAROS CASAR AUGU MANICUS, son of Germanicus and born in camp, it is supposed in Gen 12, murdered in Rome, Jan. 24, 41. name of Caligula, the use of which, it years, he held a serious offence, came military boot or brogue, caliga, we common legionary soldiers, which he to wear in his early childhood, for th of conciliating the good will of the m in fact, he retained to the last. Afte der of his father, by Piso and Plancit exile and voluntary death of his mot isle of Pandataria, he was brought great-grandmother, Livia Augusta, death; when he was taken to the he grandmother, Antonia. Having escap of his mother and brothers, he ingrat self with Tiberius, who promoted his of honor, and held out to him hopes (cession. It was one of the earliest OALIGULA 261

laligula to be present at executions, and b me in his youth an amateur in the mon of human agonies, as in his maturer he was a curious and ingenious inventor w torments. The death of Tiberius, a new torments. L.D. 37, which was caused or accelerated by aligula, brought him into power. estament, Tiberius had associated with Caius, a the empire Tiberius Gemellus, the son of elder Drusus, his own son by Agrippina who had been poisoned by Sejanus;
who had been poisoned by Sejanus;
who use pretext of his youth, Caligula
recured that he should be set aside by the
e, although in every other respect he
d a profound respect for the will of the emperor, even to the allowing the wretchwho were lying under sentence of death in he dungeons, and who now expected the act if grace usual at a new accession, to be stranped. But for a time, the world had a moment a which to breathe freely. A foreign writer, to a native or inhabitant of Rome, has left a ar record of this brief epoch, so strangely d with those which preceded and folwwed it. "The Greeks," he writes, "had no marrels with barbarians, nor the soldiers with be citizens. Men could not sufficiently admire the incredible felicity of this young prince. He had immense riches; great forces, both by and and sea; prodigious revenues, coming in to him from all quarters of the world. The limits dhis empire were no less than the Rhine and the Euphrates, beyond which there existed only savage populations, the Scythians, the Par-thians, the Germans. Thus, from the rising of the sun to his setting, over the continent and in the isles, even beyond the sea, there was no sentiment but joy. Italy, Rome, Europe, Asia, held constant holiday. For under no other emperor had men tasted such repose, had they been permitted so tranquil an enjoyment of their own property. In all towns were to be seen altars, victims, sacrifices, men clad in white and crowned with flowers, games, concerts, festivals, dances, horse-races, revelry of all kinds. Rich and poor, noble and plebeian, debtor and creditor, master and slave, all par-took of one common happiness, as if it had been *saturnalia." For 7 months this state of things continued, when, in consequence of debauchwies and excesses, the prince fell ill, and was like to die; and the Roman world, ignorant into what bands it would fall next, gave itself up to depair. All men put on mourning; they sat up all night long, and beset the palace gates for tidings. Men vowed their lives to redeem that of Caligula. There is much cause to believe that from this time forth he became, if he had not been one before, a madman. From his infancy he had been subject to epilepsy. Morally and physically, his nature was with-

out balance or regulation; at one time

undergoing the most extraordinary fatigues, at another scarcely able to support himself; con-

feasing, at moments, that he was conscious of the germs of incipient madness, and considering

the propriety of secluding himself and taking hellebore. He scarcely slept 8 hours out of the 24; and, even during these, his slumbers were disturbed by frightful dreams and apparitions. He often passed whole nights in pacing up and down the vast porticos of his palace, waiting the approach of day, and invoking it with passionate apostrophes; in all things, he was different, and differently organized, from other men. Immediately on his recovery, he threw off all restraint. We find him committing incest with his 8 sisters, Julia, Agrippina, We find him committing and Drusilla; disgracing, impoverishing, ban-ishing the 2 former, on her death deifying the latter, and then chuckling within himself in idiotic delight at the idea that he had got all his flatterers into a deadly dilemma; since they were equally guilty of impiety and worthy of death if they should mourn for Drusilla the woman, when Drusilla is a goddess, or rejoice at the defication of Drusilla, when Drusilla the woman is dead. We find him putting to death, in torture, the adulators, who had vowed their own lives for the restoration of his life, in order to teach them to keep their word with the gods. We find him, economically, giving the old gladiators to the beasts of the circus, for the twofold reason that meat is dear, and that supporting old gladiators is a needless expense to the state. We find him delighted at being able to convict the consuls of treason, in either case, whether they should or should not celebrate the victory of Actium; since, on his mother's side, he is of the family of Augustus, the victor; on his grandmother's, of that of the vanquished Antony. We find him building bridges from Baiæ to Puteoli, more than a league in length, the pontoons of which are all the corn fleet which supplied Rome with food, so that the city is famished during the continuance of the fabric, the superstructure of which is a second Appian way, with taverns and wine shops on the wayside, and groves of timber trees to shade the passengers, and rivulets of fresh water, running fur out to sea, to water the horses, and then, to crown the celebration, ordering the crowds who came to gaze upon the wonder to be thrown into the Mediterranean, and bewailing his bad luck because it is fine weather with a calm sea, so that most of these victims of his merry mood make their escape by swimming. Even in his more harmless pleasures, we find the same cynical and insane humor: removing the velaria from the amphitheatres, for the pleasure of seeing the whole people in an agony of heat and suffocation, under the fierce blaze of an Italian noontide; invading Germany, invading Britain, with innumerable armies and great fleets, in order to make the legionaries collect sea shells in their helmets, the spoils of the conquered ocean; and for want of German captives to exhibit at his triumph, having some unhappy Gauls, who were as much civilized men and citizens as himself, taught to speak German, and led through the streets with their hair, which had been let to grow long, dyed red, in

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order to simulate prisoners of war, but not to simulate their fate, since that was real, for they were all scourged and beheaded, as if they had been genuine Germans. Lastly, we find him not only wishing that all the Roman people had but a single neck, that he might finish them all at one blow, but actually preparing to destroy half the senate, and more than half the equestrian order, when he was himself anticipated by the daggers of Cassius Chærea and his fellowconspirators, who brought relief to Rome by murdering him 4 months after his return to the eternal city. Yet there were those who sincerely mourned him, and honored his remains. The prectorians regretted him, for he gave them gold and license and blood. The frivolous women and the dissipated young men of Rome regretted him, for he encouraged their debaucheries, gave them pageantries, games, shows of gladiators—in a word, something to do. What is strange is this, that the Jew Agrippa came at dead of night, to carry off the mortal relics of his master, at the risk of his own life, and give to them the rites of sepulture; that his sisters, Julia and Agrippina, whom he had outraged, compelled to infamy, and then disgraced for the infamy to which he had compelled them, immediately on their return from banishment, removed his remains to a more honorable sepulchre; that Milonia Cæsonia, his wife, who, neither young nor beautiful, exercised so strange a fascination over him, that he had threatened to put her to the rack in order to make her explain how she made him love her, remained in attendance on his corpse, covered with his blood, until the murderers returned, when she opened her bosom to their swords, bidding them to haste, in order that she might die with her husband. Cassonia's request was granted, and she as well as the daughter she had borne to Caligula was put to death.

CALIPH (Arab. Khalifa), the title of the successors of Mohammed. There were 8 caliphates: 1st, the Orientul, first established at Medina in 632, afterward at Damascus under the Ommyfades, and finally, till 1258, under the Abbassides at Bagdad; 2d, that of Cordova, founded in 756 by Abderrahman, a member of the family of the Ommyiades, which lasted until 1081; 3d, that of Egypt, or of the Fatimites, founded in 909 by Obeidallah, who pretended to be descended from the prophet's daughter, Fatima; it lasted until 1171, when it was overthrown by Saladin. The power of the caliphs of Bagdad was shaken in 934, when Rhadi assumed the office of Emir al omra (captain of the captains), with which the exercise of the absolute power, in the name of the caliph, was united. In Egypt, however, the caliphs maintained their spiritual authority until the conquest of that country by the Turks in the beginning of the 16th century. The Turkish sultans now assumed the dignity of caliph, and the grand seignior at Constantinople retains it to the present day, though his claim to spiritual authority is not

much regarded outside of Turkey. work on the caliphs, by Dr. Weil, is through the press of Perthes in Gotha, nounced to be published in the course of The following table presents a chrone list of the successive caliphs, and of the their reigns: 1st. ORIENTAL CALIPIES.

18t. URIENTAL CALIPE	rs.	Moktadi
(CALIFES OF ARABIA	.)	Mortader
Abubekr A. D. 683-	-694	Mostarshed
Omar I	644	Rashid
Othman	655	Montag
Alt		Moctafi
<u>A</u> li	661	Mostanjed
Hassan	661	Mostaribi
(Ommyiades.)		Naser
Moawyiah I661-	-680	Zaher
Yezid I	668	Mostanser
Moawylah II	688	Master
Moswytkii II		Mostasem
Merwan I	684	St. CALIPES OF C
Abd el Malek	706	Abderrahman I
Walid I	715	Hashem L
Solyman	717	Al Hakem I
Omar II	790	Abderrahman II
Vanid II	724	Modernanman II
Yezid II		Mohammed I
Hashem	743	Almondhir
Walid II	744	Abdallah
Yezid III	744	Abderrahman III
Ibrahim	744	Al Hakem II
Merwan II	750	Hashem II
	100	mannem II
(Abbassides.)		Mohammed Al M
Abul Abbas	-754	(deposed)
Abu Giaffar, called Al		Bolyman
Mansoor (the victori-		34.1.
		MI ODBITO IDECL (PEC JACK
	775	Mohammed (reflect
ous)	175	Hashem (reclected)
ous)	755	Hashem (reclected) Hamud
ous)	755 755	Hashem (reclected) Hamud
ous)	755 755 809	Hashem (reclected) Hamud. Abderrahman IV. Kasim.
ous)	755 755	Hashem (reclected) Hamud. Abderrahman IV. Kasim.
ous)	755 755 809	Hashem (reclected) Hamud. Abderrahman IV. Kasim.
ous)	755 795 809 618 838	Hashem (reviected) Hamud. Abderrahman IV. Kasim. Yahye. Abderrahman V.
ous). Mahdi. Hadi. Haroun al Rashid. Anin. Almamoun. Motassem.	755 745 809 618 838 841	Hashem (reviected) Hamud. Abderrahman IV. Kasim. Yahye. Abderrahman V. Mohammed III.
ous). Mahdi Hadi Haroun al Rashid. Amin. Almamoun Motassem Wathek.	755 795 809 618 838 841 647	Hashem (reclected) Hamud. Abderrahman IV. Kasim. Yahye. Abderrahman V. Mohammed III. Yahye (reclected).
ous) Mahdi Hadi Haroun al Rashid. Amin Almamoun. Motassem Wathek Motawackel	755 795 809 618 833 841 847 561	Hashem (reclected) Hamud. Abderrahman IV. Kasim. Yahye. Abderrahman V. Mohammed III. Yahye (recl-cted). Hashem III.
ous) Mahdi Hadi Haroun al Eashid Amin Almamoun Motassem Wathek Motawackel Mostanser	795 909 618 888 841 847 861	Hashem (reclected) Hamud. Abderrahman IV. Kasim. Yahye. Abderrahman V. Mohammed III. Yahye (reclected). Hashem III. 3d. Cattrus or E.
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CALIPPUS, a Greek astronomer. Cyzicus, in the 4th century B. C. He Athens, and became associated with A whom he assisted in rectifying and con the discoveries of Eudoxus. Already attempts had been made to express tire numbers the 8 great natural un time, the solar year, the lunar month, solar day. A century before, Meton had ered that 19 years corresponded to 28 or 6,940 days. Calippus observed that calculation there was an error of abou day each 19 years, which he proposed t by quadrupling the cycle and reck 76 years, and omitting one entire cycle. This period of 76 years was ea Calippic cycle, and was adopted by omers after the year 880 B. C.

CALIXTINES (from the Latin cali ice). There are 2 sects in ecclesiastical known by this name. I. Those who d the communion in both kinds for

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xtines were a branch of the Hussites, iso called Utraquists. They were moderate of the 2 branches of the of that reformer, and were will-npromit the remaining 8 of the 4 ch the Bohemian heretics had subthe terms of reconciliation, at a Basel (Feb. 16, 1433). The 4 points the use of the cup; 2, the free of the word of God; 8, the abolierical endowments; 4, the punish-ne civil magistrate of heinous transnd mortal sins. At an embassy held some time after, the Catholics inhese 4 articles, so amended as that support them; but now the Bohermers refused to accept them as The Calixtines, however, attaching mportance to the 1st of the 4 arented to waive the other 8, in con-of securing this. They were op-he Taborites or Orphans, who conall the 4. The event proved in favor ixtines, for in the following year a attle crushed the hopes of the Taborhereafter the only distinction from lic communion which the Hussite yed, was that for which the Calixanded. II. The other body known less were the followers of George ne of the reformers in the 16th cenounder of the party called Syncre-CALIXTUS, GEORGE.

TUS, the name of 3 popes. The first, lavery, was bishop of Rome from 2, when he is said by some to red martyrdom. II. Born near Bed in Rome, March 18, 1124. His

was Guido of Burgundy, and he son of William, count of Burgundy, d to the queen of France, the emiermany, and the king of England. was already archbishop of Vienne, n after went to France and England ity of papal legate, principally in ore the vexed question of lay investi119, Gelasius II. died at the abbey and Calixtus was appointed to suc-

He held councils at Toulouse and at the latter of which 427 bishops and e present, while the emperor Henry amped in the vicinity, with 30,000 ertheless he was solemnly excommu-Calixtus, in presence of the council are decrees of this council was one he archbishop of York independent bishop of Canterbury. After closing I Calixtus went to Rome in 1120, nti-pope, named Gregory VIII., had himself under the protection of the but Calixtus expelled him, and with the neighboring princes stormed of Sutri, whither he had fled, and prisoner. He next attacked the Francenci, broke their power, and threw castles. In 1121 and 1122 he sent

legates to Germany, a diet was held at Wurzburg, and finally the pactum Caliztinum, or concordat of Worms, was concluded. Henry sent ambassadors to the pope, and in 1123 the first Lateran council was held, at which 800 bishops were present, and in this council Henry was absolved, and the questions of investiture finally settled. The remainder of his life was spent by Calixtus in active labor for the good of the church and of his states; and he paid particular attention to the decoration of St. Peter's church, and repairing the aqueducts of Rome. III. (ALFONSO BORGIA), a member of the Spanish branch of the Borgia family, born at Valencia, was pope from 1455 until Aug. 6, 1458, when he died. After having received an excel-lent education, he was promoted to a canonry by the anti-pope Benedict XIII. (Peter de Luna). whose party was embraced by Alfonso V., king of Aragon. Having soon after been called to the royal council by the above-mentioned prince, he was sent by him to Benedict's successor, in order to induce him to abandon his pretensions; and having succeeded in this mission, he negotiated the reconciliation of his sovereign with Pope Martin V., and was rewarded by that pontiff with the archbishopric of Valencia. About 15 years afterward (1444), he was made cardinal by Eugenius IV., as a reward for essential services in negotiating a reconciliation between himself and Alfonso V. On April 8, 1455, he succeeded Nicholas V. on the papal throne. The ruling idea of his ponti-ficate was the revival of the crusades against the Turks. He made the most energetic and persevering efforts to unite all the powers of Christendom in this undertaking, but without much success. This pope is said to have administered the government of the church with seal and ability. The greatest fault which he committed was the elevation of his 2 unworthy nephews, Rodrigo Lenzuolo and Milo, to the dignity of cardinal, the former of whom became afterward pope under the name of Alexander VI.

CALIXTUS, GEORGE, properly CALLERER, a Lutheran divine, born at Meelby in Holstein, Dec. 14, 1586, died at Helmstadt, March 19, 1656. He studied successively at Helmstadt, Jena, Giessen, Tübingen, and Heidelberg. With a son of an opulent Dutch gentleman named Overbeck he made the tour of England and Germany, and by this means became acquainted with many of the leading reformers of those countries. The duke of Brunswick had, before his departure from the continent, been interested in the talents of Calixtus, by a discussion in which he had heard him engaged with a Jesuit. On his return the duke appointed him to a professorship in Helmstadt. Helmstadt was one of the original protesters against the "Form of Concord," that famous instrument drawn up in 1577, and always regarded as the Magna Charta of Lutheranism. Every thing in Helmstadt then readily fell under the suspicion of Calvinistic tendancies. Consequently, when Calixtus,

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at the conference of Thorn (1645), showed himself so moderate in his Lutheran opinions as to favor and attempt the reconciliation of the Protestants and the Reformed church, he fell under the hatred of Calovius and his adherents, who insisted on his excommunication from the Lutheran church as suspected of Calvinism. Meanwhile, another party had just accused him of Catholicism, on account of one of his works, the "Epitome of Moral Theology." On the other hand, the Catholics regarded him as their most sagacions and insidious enemy. To sustain himself under this triple fire was no small task. He considered a union of the sundered body of Christ feasible, if the conflicting parties could be induced to return to the occumenical councils and laws of the first 5 centuries. This plan gave rise to what is known in ecclesiastical history as Syncretism, though the followers of Calixtus are sometimes called Calixtines. These Calixtines, however, must not be confounded with the Hussite sect of the same name. He had embraced the Aristotelian philosophy, and that modified his treatment of the ethical system of Christianity. He was the first writer who attempted a truly scientific and philosophic symbol of Christiani-The Calixtine controversy continued long after his death, so that his influence on the theology of the succeeding age was greater than on that of his own.

CALKING, the process of driving tarred oakum into the seams between the planks of ships, in order to render the joints water-tight. A wisp of the oakum is drawn out and rolled together between the hands, and being laid over the seam, is driven by a wedge-shaped instrument, called the calking iron. The work is afterward gone over with a more powerful instrument of the same kind, which is held by one man and struck with a beetle held by another. When all the oakum is forced in that is practicable, the seams are payed over with melted pitch, and where they are to be covered with copper, a thread of spunyarn is laid in to make them

flush with the planks. CALL OF BIRDS.

The call of the feathered races must not be confounded with their song, from which it is entirely and in all senses distinct. The former is their language, at all times, in all seasons, and is expressive, in so far as they can express them, of all their wants, passions, and desires, one alone excepted; the latter is occasional, limited to a single season of the year, when the bird is in a state of nature, limited to a single sex, the male, and expressive but of a single feeling, that of amorous desire. Many birds have no power of song; none, so far as it is yet ascertained, are without a call. Some, so far as it has been shown, have but a single call to express all their inclinations—although it may be doubted whether a more extended acquaintance with many of the wild tribes, whose distant haunts and secluded habits prevent the great enemy, man, from becoming familiar with their domestic and familiar ways, would not prove that the vocal qualities of all birds are

more extended in compass and more than we are at first disposed to be many species of birds, the wild aquati aquatic legions of the duck, goose, ver, and sandpiper families, we know lation to their call beyond their pa used as rallying notes or signals whe voyages, or as alarm calls when start approach of their enemies. A close would, probably, teach us that ever silent, in an ordinary sense, of the races, have their sounds expressive ness to their mates, of affection to th of alarm when the enemy is at hand. tion on reassembling after absence, of to partake in the food which is o found, or of recall at the hour of Many birds, which are mute in the to which they migrate in the winte and have the reputation of being enti less, are clamorous when they breed case with the European woodcock rusticola), and the jacksnipe, or jude pax gallinula), both of which are rep in the countries where they are sho those where they breed they are have at least one note, and probably others, which are either never heard tinguished, or, if both, are assigned than those to which they belong, bei only in the seclusion of remote as places, and addressed only to their y in privacy, or to their mates when is of courtship, or when sitting on the caring for their tender broods. Som known by their clang of tongues, as t through the heavens in their migratio ing in order to regulate their squadi starless night, as wild geese, cranes, of the waders, which, when they are: the sportsman, rise voiceless and un feed in the daytime silent in the wastes which they inhabit. Others feed silent, and are, so far as we ! at all times, except when they spri wing in any sudden alarm. Some passenger pigeons, make their mig silence, take wing in silence when al when alone in the woods, undisturbe less, make the green solitudes some their conversations; others, like ro all times, especially in the breedi habitually noisy, yet rise in flocks wit or signal. The song of all birds in a is limited to the season of pairing, female, like the girl described by one of his poems, invariably "giv what gold could never buy," or w brooding hopefully on her eggs chee love notes of the faithful lover, wh her patient labors with his voice, be sing when he, also, has cares patern In some species which do not sing, amatory call which answers the song, peculiar to the male bird durin son of the female's incubation, as

double whistle of the American quail, the cry of the cuckoo, the cooing of the dove, the harsh crik of the landrail, and the kek-kek-kek of the male of the English snipe, as it is falsely called in the United States (scolopax Wilsonii), which is either wholly discontinued, or is changed into something wholly different, when the season and the desire for reproducing their species have passed away. As a general rule, aquatio byl are more noisy than land birds, sea fowl than fresh-water birds, nocturnal than diurnal birds, domesticated fowls than those in a state d nature, birds which congregate than those d solitary habits, and, with the exception of common poultry, migratory birds, which pass much of their time on the wing, than those which dwell on the ground. No one of these rdes, however, but is liable to numerous exceptions; for, while some sea birds, which congreate, are deafening in their clangor, they totally independent one of the other, not regulating their movements by signals of any kind; others, as many varieties of the tringas and scolopacida, and charadriadas likewise, while they utter no sounds, yet wheel as regubily and orderly, in obedience to some concerted signal, as a well-disciplined regiment of horse. And, again, while some migratory birds are vociferous in the extreme, others are totally alent, and some non-migratory species, such sjækdaws and rooks, exceed all others in the propensity they exhibit for hearing their own unsweet voices. None, since the days of Canacc-the owner of the virtuous ring, whose properties, as described by Chaucer,

> Were these, that if she list it for to wear Upon her thumb, or in her pouch to bear, There is no foule that fleeth under heven That she ne shalle understand his steven And know his meaning openly and plain, And answer lim in his language again—

has pretended to possess the faculties of that gifted lady to their full extent; although the bagmen and fowlers of the Long island shores and Atlantic beaches have, at least, so far adranced in the path of her mysterious lore, that, whether or not they can understand the steven, or sound (for such being interpreted does that hard word signify) of every fowl that fleeth under heaven, and know his meaning openly and plain, they can in so far imitate their calls and hold converse with them, as they come and go, that the birds will turn on the wing to hear, "and answer them in their lanwing to hear, "and answer them in their lan-grage again," and come down from the safe altitudes of cloud, or clear, to visit their treacherous decoys, and leave their plumy pinions, mowed down by their cruel volleys, to welter on the barren wave.—That amiable and delightful naturalist and writer, Gilbert White, of Selborne, than whom no one has done more, if any one so much, to divest the pursuit of the knowledge of nature of tedious and tiresome technicalities, to bring zoology within the range of the general reader and observer, and to render science agreeable, popular, and inter-esting to all classes of intellect, without ren-

dering it inexact, flippant, or vulgar, discourses charmingly on the call of many birds, which are familiar to all persons, how little given soever to ornithological or scientific pursuits. "From the motion of birds," he says, in one of his letters to the Hon. Daines Barrington, bearing date, Selborne, Sept. 9, 1778, "the transition is natural enough to their notes and language, of which I shall say something. Not that I would pretend to understand their language, like the vizier who, by the recital of a conversation which passed between 2 owls, reclaimed a sultan before delighting in conquest and devastation; but I would be thought only to mean that many of the winged tribes have various sounds and voices, adapted to express their various passions, wants, and feelings, such as anger, fear, love, hatred, hunger, and the like. All species are not equally eloquent; some are copious and fluent, as it were, in their utterance, while others are confined to a few important sounds; no bird, like the fish kind, is quite mute, though some are rather silent. The language of birds is very ancient, and like other ancient modes of speech, very elliptical; little is said, but much is meant and understood. The notes of the eagle kind are shrill and piercing, and, about the time of nidification, much diversified, as I have been assured by a curious observer of nature, who long resided at Gibraltar, where eagles abound. The notes of our hawks much resemble those of the king of birds. Owls have very expressive notes; they hoot in a fine vocal sound, much resembling the vox humana, and reducible by a pitch-pipe to a musical key." Elsewhere he says: "A neighbor of mine, who is said to have a nice ear, remarks that the owls about this village hoot in 3 different keys, in G flat or F sharp, in He heard 2 individuals B flat and A flat. hooting to each other, the one in A flat, and the other in B flat. Query: do these different notes proceed from different species, or only from various individuals?" "This note," he continues, in the letter first quoted, "seems to express rivalry and complacency among the males; they use also a quick call and a horrible scream, and can snore and hiss when they mean to menace. Ravens, beside their loud croak, can exert a deep and solemn note that makes the woods echo; the amorous sound of a crow is strange and ridiculous; rooks, in the breeding season, attempt sometimes in the gayety of their hearts to sing, but with no great success. The parrot kind have many modulations of voice, as appears by their aptitude to learn human sounds. Doves coo in an amorous and mournful manner, and are emblems of despairing lovers; the woodpecker sets up a sort of loud and hearty laugh; the fern owl, or goatsucker, from the dusk to daylight serenades his mate with the chattering of castanets. All the tuneful passeres express their complacency by sweet modulations and a variety of melody. The swallow, as has been observed in a former letter, by a shrill alarm bespeaks the at-

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tention of the other hirundines, and bids them beware that the hawk is at hand. Aquatic and gregarious birds, especially the nocturnal, that shift their quarters in the dark, are very noisy and loquacious, as cranes, wild geese, wild ducks, and the like; their perpetual clamor preventing them from dispersing and losing their companions. In so extensive a subject, sketches and outlines are as much as can be expected; for it would be endless to instance in all the infinite variety of the feathered na-We shall, therefore, confine the remainder of this letter to the few domestic fowls of our yards, which are most known, and therefore best understood. And first, the peacock with his gorgeous train demands our attention; but like most gaudy birds, his notes are grating and shocking to the ear; the yelling of cats, the braying of an ass, are not more disgustful. The voice of the goose is trumpet-like and clanking, and one saved the capitol of Rome, as grave historians assert. The hiss also of the gander is formidable and full of menace, and protective of his young.' Among ducks, the sexual distinction of voice is remarkable; for while the quack of the female is loud and sonorous, the voice of the drake is inward, and harsh and feeble, and scarce discernible. cock turkey struts and gobbles to his mistress, in a most uncouth manner; he hath also a pert and petulant note when he attacks his adver-When a hen turkey leads forth her young brood, she keeps a watchful eye, and, if a bird of prey appear, though ever so high in the air, the careful mother announces the enemy with a little inward moan, and watches him with a steady and attentive look; but, if he approach, her note becomes earnest and alarmed, and her outcries are redoubled. No inhabitants of a yard seem possessed of such a variety of expression and so copious a language as common poultry. Take a chicken of 4 or 5 days old, and hold it at a window where there are flies, and it will immediately seize its prey with little twitterings of complacency; but if you tender it a wasp or a bee, at once its note becomes harsh and expressive of disapprobation and a sense of danger. When a pullet is ready to lay, she intimates the event by a joyous and easy soft note. Of all the events of their life, that of laying seems to them the most imporcant; for no sooner has a hen disburdened herself than she rushes forth with a sort of clamorous joy, which the cock and the rest of his mistresses immediately adopt. The tunult is not confined to the family concerned, but catches from yard to yard, and spreads to every homestead within hearing, till at last the whole village is in an uproar. As soon as a hen becomes a mother, her new relation demands a new language; she then runs clucking and screaming about, and seems agitated, as if possessed. The father of the family has also a considerable vocabulary; if he finds food, he calls a favorite to share it; and if a bird of prey pass over, with a warning voice he

bids his family beware. The galls ticleer has at command his amorous and his tones of defiance. But the which he is best known is his crowing he has been distinguished in all ag countryman's clock or 'larum-as th man that proclaims the divisions of t Thus the poet elegantly styles him 'th clock, whose clarion sounds the silent he neighboring gentleman, one summer, most of his chickens by a sparrow-ha came gliding down between a fagot the end of the house, to the place v coops stood. The owner, inwardly ve his flock thus diminishing, adroitly setting net between the pile and the h which the caitiff dashed and was e Resentment suggested the law of re he therefore clipped the hawk's wint his talons, and fixing a cork on his b him down among the brood hens. Im cannot paint the scene that ensued; ti sions that fear rage, and revenge inspi new, or at least, such as had been before. The exasperated matrons u they execrated, they insulted, they to In a word, they never desisted from their adversary till they had torn hundred pieces."

CALLA, a genus of plants, belongiarum family, marked by an open and spathe, with a white upper surface, a spadix entirely covered with flower shaped leaves, red berries, and thick root-stocks. The C. palustris is a marshy places in the north of Euro common in cold bogs in the northe States. Its seeds are surrounded with Sweden its root is dried, and furnishes meal from which bread is made. The pica was introduced into England Cape of Good Hope, in 1731. It is wild in St. Helena. Its large spath white, surrounding a spadix which deeply yellow by its antheriferous flooften cultivated, and is one of the me ful of aroideous plants. Being hard live in temperate regions, growing vigor in the ordinary apartments of and may be made to blossom all the y

CALLAN, a municipal borough town, and parish, on King's river, c kenny, Ireland. One-third of the in of the town are said to be without employment. It has been the scenbattles, and in 1650 was taken by a lt gives the title of viscount to the family. Pop. 3 100

family. Pop. 3,100.

CALLANA, or CALANNA, a town:
of Soodan, N. W. Africa. It is situathe mountains of the Bataka range,
which branches from the mountains
and terminates in the Sahara.

CALLAO, or Callao DE Lima, a Peru, 6 miles W. of Lima, of which port; pop. 7,000. The original town Mished and submerged by an earth1746, and at low tides its ruins are le in the bay. The existing town conof low houses, slightly built, plastered and with their windows in the roof.

Example 2 considerable; lines of steamers twith Chili, Panama, &c.; the principal are bullion, cotton, soap, bark, and sallao was the last stronghold of the South America.

c AY. I. A south-western county of 7, on the west bank of the Tennessee re navigable by steamboats; area, 450 evel and hilly grounds divide the surnet equally. The soil, which possesses able fertility, produces tobacco, corn, and in 1850 yielded 405,785 bushels 1 corn, 8,414 of wheat, 64,450 of 7,381 lbs. of tobacco, and 18,637 of there were 10 corn and flour mills, 6 k, 2 tanneries, 24 churches, and 880 tending public schools. Formed in d named in honor of Col. Richard Calne of the early settlers of the state. 1850, 8,096, of whom 992 were slaves. Murray. II. An eastern county of Misunded on the S. by the Missouri river,

unded on the S. by the Missouri river, an area of 743 sq. m. The surface rely uneven, and about 1 of it red by prairie land. The soil is uniertile, and the staples are wheat, corn, acco, hemp, horses, cattle, and mules. luctions in 1850 were 811,885 bushels of rorn, 50,178 of wheat, 184,418 of oats, lbs. of tobacco, and 177,369 of butter. ere 86 corn and flour mills, 6 saw mills, en factories, 1 newspaper office, 31, and 1,717 pupils attending public Coal, iron, limestone, and potter's found in various places, and in large 25. Organized in 1820. Pop. in 1856, of whom 4,527 were slaves. Capital,

COTT, SIR AUGUSTUS WALL, an Engliscape painter, born at Kensington in ed there, Nov. 25, 1844. His principal ons are "Returning from Market," ig for the Passage Boat," "The Ferry," his well-known picture, "Harvest in hlands," the figures were painted by r. His "Raphael and the Fornarina" alated by the London art-union among ribers in 1843, in an engraving by L.—John Wall, an English musical comther of the preceding, born at Kenna 1766, died in May, 1821, assisted in forming the glee club, and excelled parin that branch of national music. The

In 1805 he published his "Musinar," and his choicest compositions ought out in 1824, after his death.—born 1788, died 1842, was a daughter. Dundas, married to Capt. Graham, hose death she married Sir Augustus. She published an account of her

travels in India, "Three Months in the Environs of Rome," "Memoirs of Poussin," &c. Her 2d husband turning her attention to the fine arts, she published in 1836 "Essays toward the History of Painting."

History of Painting."
CALLE, La, a seaport of Algeria, pop. 300, in the province of Constantine. It is built on a peninsula in the Mediterranean, and is the

principal seat of the French coral fishery. CALLEJA, FELIX DEL REY, conde de Calderon, a Spanish general, born in 1750, died about 1820, distinguished himself in Mexico by quelling the insurrection instigated in 1810 by Hidalgo, who was on the point of seizing the city of Mexico, when Calleja was charged by the viceroy Venegas to oppose his progress. After encounters, in which both parties strove to surpass each other in a display of cruelty and brutality, Calleja succeeded in defeating Hidalgo's army, and on Jan. 2, 1812, he took possession of the principal fortress Zitaquaro, and massacred the inhabitants. Hidalgo, who fell near Guadalajara, was succeeded by the priest Morelos, who defended Cuautla Amilpas against the attack of Calleja with great bravery until May 2, 1812, when famine forced him to surrender. Calleja again signalized his victory by acts of barbarism, and was rewarded for his zeal, March 4, 1813, by the appointment of viceroy, in which capacity he continued to alienate the feelings of the Mexicans by his relentless rigor. The priest Morelos fell into his hands and was shot, Dec. 22, 1815. Subsequently he promulgated an amnesty, but as he was unable to restore peace to the distracted country, he was recalled, Sept. 20, 1816. On his return to Spain he was created conde de Calderon, and in Jan. 1820, while preparing to sail from Cadiz against the revolutionists of Paraguay, his troops having mutinied, he was captured and remained prisoner in the fortress of the Isla de Leon until the insurrection was quelled by Ferdinand VII. when he died, soon after having recovered his liberty.

CALLENDER, JAMES THOMPSON, a political writer, born in Scotland, died at Richmond, Virginia, in July, 1803. For a long time he was editor of the "Richmond Recorder," and distinguished himself by his virulent attacks upon the administrations of Washington and Adams. He also published the "Prospect before us," "Political Progress of Britain," and "Sketches of American History." He was at one time a friend of Jefferson, but became his enemy and calumniator. He was drowned in the James river while bathing.

CALLICRATIDAS, a Spartan, succeeded Lysander, B. C. 406, in the command of the Lacedæmonian fleet against the Athenians, by whom he was defeated off the Arginusæ; and, thrown overboard in the action, he was drowned. Callicratidas was a Spartan to the core. When asked what sort of men the Ionians were, he replied, "Bad freemen, but excellent slaves."

CALLIERES, FRANÇOIS DE, a French diplomatist and author, born in Thorigny, in lower

Normandy, May 14, 1645, died in Paris, May 5, 1717. He was sent to Poland in 1672, for the purpose of advancing Longueville's claim to the Polish throne. He officiated as ambassador in Holland, and was present at the signing of

the treaty of Ryswick, Sept. 20, 1697. CALLIMACHUS. I. A Greek architect and statuary, supposed to have lived before 896 B. C., and said to have invented the Corinthian column. II. An Alexandrine grammarian and poet, born at Cyrene, in Africa, lived in the reigns of Ptolemy Philadelphus and Euergetes, and was chief librarian of the celebrated Alexandrian library, from 260 until 240 B. C., when he died. For some time he had kept a school at Alexandria, and numbered among his pupils Eratosthenes, Aristophanes of Byzantium, and Apollonius Rhodius. Only 6 hymns and 78 epigrams remain of his numerous writings.

CALLINGER, a strong British fortress in Bundelcund, Hindostan, built on the summit of a mountain 1,230 feet above the sea, is about 5 After the British had taken miles in circuit. possession of all the surrounding district, they were obliged to lay regular siege to this fortress, and took it with great difficulty and after many efforts, Feb. 28, 1812. In earlier times it had resisted sieges more than 10 years long.

CALLINUS, of Ephesus, the earliest Greek elegiac poet, lived about 700 B. C. One of his elegies consisting of 21 lines is extant, having

been preserved by Stobeus.

CALLIOPE, in Greek mythology, the muse of epic poetry, named from the sweetness of her She is represented in ancient art as bearing a tablet and stilus, waiting to record heroic deeds. She is particularly associated in the ancient statues with Homer.

CALLIOPE, a steam musical instrument, invented by Mr. Joshua C. Stoddard, of Worcester, Mass. Valve chambers are arranged along the top of a steam chest or cylinder, each one furnished with a double metallic valve, seated steam-tight without packing. A small stem passes from each of the valves through the chamber to the outside, by which the valve may by slight pressure be opened; the pressure taken off, it instantly closes. Over each valve is a steam whistle, each having its own tone. A cylinder with cogs, like that of a music box, is so placed as to lift the valves as it revolves, and thus produce tunes. By recent improvements the tunes may be played by striking keys

similar to those of a piano.

CALLIPHON, a Greek Epicurean or rather eelectic philosopher, who taught that the highest good of man consists in a union of virtue

and bodily pleasure.

CALLIRRHOE, a fountain near Athens, called also Enneacrunus, because its waters were distributed by 9 channels. It still bears its ancient name.

CALLISTEIA, festivals among the ancient Greeks at which the prize of beauty was adjudged to the fairest. One of these contests was held by the Lesbian women in the temple

of June on their island; another i of the festival celebrated by the 1 Arcadia, in honor of Ceres El a occurred among the Eleans. In the inst only men contended; and the most man received a suit of armor which cated to Minerva, and on his way to was encompassed by his friends and with ribbons and a myrtle wreath.

CALLISTHENES, of Olynthus, a

relation of Aristotle, by whose rection he accompanied Alexander the Asia. He often expressed disappro-Alexander, and at length, when the had adopted the pomp and the humili monial of the Persian court, Calli only freely uttered his own excited displeasure among the sources put to death by command of Alexa the several histories which he wrote, come down to us; but one of the mo of the mediaval romances, filled with and fancies concerning the oriental lif

ander, has been attributed to him. CALLISTHENICS (Gr. καλλος, beat strength), a system of exercises 1 for its object the development of grace and vigor. The callisthenic exquiring less violence of muscular actio ordinary gymnastics, are consider better adapted to the more delicate of females, and are generally confinapplication to that sex. Their j give equal development to all the muscles, and thus produce that he action on which depends not only l regularity of proportion and grace of t Callisthenics may be practised mediat mediately, with or without apparatus apparatus required, when used, is a su a short roller fixed in sockets near an open doorway, a light wooden s
41 feet in length and 1 an inch
eter, a pair of light dumb bells, a tress, a couple of square weights, s allel bars. The exercises with these ple, and can be readily learned in a les from a teacher, or, in fact, from a numerous manuals published on th They are difficult to describe, however the aid of diagrams. In the the pupil plants her feet at so then leans forward on tiptoe, any see upon the back of the chair. The exc sists in moving the body slowly be forward between the two fixed po toes on the floor and the hands on w the chair. This simple manœuvre is: adapted for the expansion of the ch development of all the muscles of to the body. In the roller exercise the pends herself by her hands a few in the floor, and swings in this position, her grasp alternately from side to si however, is an exercise which, howe able to strength, will not be consider

ive to beauty by those fair dames who value hand of luxury, with its soft and lily-white, more than the hard palm of utility. A number of graceful and strengthening nuents may be made with the staff. One of vest is to hold it in both hands, and pass it messively over the head to the right and left, it down each time below the middle person, in front or behind. The dumb being grasped by the hands, are to be d forward and backward horizontally chest, or with the arms below the o oe moved circularly about the body, hey meet before and behind. The exeron the mattress consists merely in raising on from a horizontal to a sitting pose the arms and legs are extended, and 1 to aid in the movement. The square may be used in most cases like the ells. They have, however, the peculiar stage of a form which allows of their being n the head. This is one of the best means of giving uprightness to the as in thus balancing a weight, the spine successarily brought by the muscles of the ato a straight position. The negro wo-South, who are in the habit of carryy burdens on their head, are remarkwe erectness of body. The parallel bars are ned at their ends to the floor and at a proper distance apart, and of a wow we be readily grasped by the hands of backward and forward between them. new necessary exercise, however, can be ised without the use of apparatus of any and the system of callisthenics founded as less liable to abuse from the inzame zeal of the pupil, and more calcuto preserve the To Kakov, the beautiful, ifew women will be persuaded to exchange acquisition of obivos, strength. When apis used, the effort is more violent, and we muscles may become so prominently develmed as to cause the absorption of the soft celhar tissue which cushions the human frame, and which, by its abundance in the female, gives that beautiful and distinctive roundness and fulness to her form. The constant handling of the hard material of the apparatus, also, is apt to produce not only a disproportionate enlargement of the hand, but so to coarsen its texture, that most of our fashionable ladies would conder health, bought at such a price, a dear purthe callisthenic exercises without apparates consist in regular and systematic move-ments of the whole body. The head and the trunk moved up and down, forward and backto the right and left; the arms and legs, and hands and feet, are also so exercised that way voluntary muscle is brought into action. The object being to give an equal muscular derelopment to the whole frame, the exercises are to arranged that each part of the body has its thare in turn. None of the movements are

complicated, and, in fact, are no more than those usual in the ordinary exercise of our limbs. Callisthenics, however, by reducing these to a system, insure an equal and regular action of the muscles, while the occupations or amusements of females are apt to effect the reverse, and thus cause both distortion and ill health. It is essential that all these exercises should be practised, if in-doors, in well-ventilated halls or apartments; for without pure air, great muscular activity is more conducive to disease than health.—The practical utility of all gymnastics is much interfered with by the early weariness of the pupil with the uniformity of the move-ments. Without the discipline of a teacher, it is difficult to secure a long persistence in the exercises. It is well, therefore, to vary them, or to associate with them as much as possible the idea of amusement. In fact, there is no better callisthenic apparatus than many of the ordinary playthings, such as the battledoor and shuttlecock, the cup and ball, and the "graces." Horseback exercise, which is now confined to the opulent, ought, as it might economically, to be introduced into every school; and swimming, which is almost entirely neglected by the female sex-everywhere except in the Sandwich islands, where it is now, however, fast disappearing before a civilization, barbarous at least in this respect—should be taught to every girl, and practised universally. Ling, the Swedish writer on gymnastics and callisthenics, has written enthusiastically upon the advantage of systematic muscular exercise in the cure of disease. Many of those ailments to which females are peculiarly liable are owing to the neglect of proper physical training, and may be cured, doubtless, by the proper application of callisthenics. Most of these female disorders may be justly attributed to the weakness of the abdominal muscles, and a proper strengthening of them by exercise would, no

doubl, remove the cause.

CALLISTO, an Arcadian nymph, a companion of Diana in the chase, beloved by Jupiter, to whom she bore a son Arcas. To conceal the amour, Jupiter metamorphosed her into a she bear. Juno discovered the truth, and caused Diana to shoot the bear. Jupiter placed Callisto, under the name of Arctos, among the stars.

CALLISTRATUS, the Athenian orator by whose eloquence Demosthenes was so impressed that he abandoned the study of philosophy, and determined to devote himself to oratory. He was banished in the year 361 B. C., and upon his return to the city was put to death.

CALLON, one of the earliest Greek sculptors, a native of the island of Ægina, lived about the year 516 B. C. His statues were wrought in marble, bronze, and wood.

CALLOT, JAQUES, a French engraver, born in 1592 at Nancy, died there in 1635. His early passion for art was opposed by his father, who was the herald-at-arms of the duchy of Lorraine. Jacques made his escape to Florence, where he entered the studio of Remigio Canta Gallina. He was, however, compelled to return

home, only to escape again. But again he was brought back to Nancy by his oldest brother, who lay in ambush for him at Turin: Finally, his father yielded to his desire; he resumed his studies in Italy, and eventually acquired great celebrity as an engraver. He executed over 1,500 plates, and made himself very popular by etchings which illustrated the life and manners of the people. He excelled also as a painter, but his universal reputation depends mainly on his engravings of the temptation of St. Anthony, his fairs of Nancy, his battles and

sieges, his punishments, and a few others. CALLUS, any preternatural hardness in the body, particularly of the skin, as on the hands or feet, from friction or pressure. The hardened edges of a wound or ulcer are also termed callus; but the most common application of the word is to the new growth of osseous matter around and between the extremities of fractured bones, serving to unite them. The mode of reparation is attended by the following changes: 1. Extravasation of blood where the bone is fractured. After this is absorbed, liquor sanguinis is effused, and assumes the position which the blood had occupied. 2. This consolidates, and the watery portion being absorbed, the rest becomes organized. 3. This period of plastic exudation lasts 8 or 10 days, and then becomes quasi-cartilaginous. 4. This mass contracts, increases in density, and gradually becomes what is commonly termed bone, but it is not true bone, though very hard and strong. 5. The ossification or solidification advances from the periphery, and the fractured extremities are now surrounded by a bony case termed the provisional callus. 6. After this is formed, continuity is truly restored by the formation of what is called definitive callus or true bone, which takes place between the fractured extremities. 7. Finally, the provisional callus is absorbed and disappears. It was formed merely to serve as a natural case or splint to maintain the broken extremities in their position, while the osseous reparation was proceeding to restore the natural unity and continuity of structure. The provisional callus is not true bone, but a hard substance resembling ivory or bony structure.

CALLY, PIERRE, a French theologian, born near Argentan, about the middle of the 17th century, died Dec. 31, 1709. He was the first person in France who accepted fully the philosophy of Descartes, for which he was exiled for 12 years to Moulins. He published several works upon philosophical and theological topics, and also edited the Do Philosophia Consolations

of Boëthius.

CALMAR, or KALMAR, a seaport town of Sweden, pop. 5,346, on the strait separating the island of Oeland from the continent, 190 miles S. S. W. from Stockholm. Here, in 1397, was concluded the treaty known as the "Union of Cal-mar," which united the 3 kingdoms of Sweden, Denmark, and Norway under Margaret, daughter of Waldemar III. Here also, in 1520, Gustavus Vasa disembarked to put a final end to

the union. Louis XVIII., during his France, resided at Calmar in 1804, a there a tablet in honor of Gustavus.

CALMET, AUGUSTIN, a French s Benedictine of the congregation of ? born Feb. 26, 1672, died in Paris, Oc He began to study theology in the price il, but learned Hebrew under Faber, an divine. In 1698 he was appointed the younger monks of Moven-Moutiogy; in 1704 he became director of of Munster, where he expounded the! and he passed thence to the abbey pold, near Nancy, in 1711, and to that in Lorraine in 1728. He was active in his duties till his death, honored his piety and simplicity, and held in 1 by Voltaire. He devoted himself lat archæological, historical, and theolog and left many learned works, among celebrated "Dictionary of the Bible

CALMUCKS, the most numerous brated people of the Mongol race, parts of Asia and eastern Europe, and to the empires of China and Rus were formerly called the Eleutes; call them Khalimik, or apostates; call themselves Derben Eret, or the They are divided into 4 principal 1 Khokhots, numbering 40,000 familie habit eastern Thibet and the enviro Nor, which they regard as their n the Dzoungares, or Soongars, giving to the country Soongaria, having fi to 30,000 families, and formerly the most powerful of the hordes; the Tchoros, who migrated from Soonga established themselves on the upper came vassals of Russia, and during century took possession of the step the Don and the Volga, where the 15,000 families, and are associate Cossacks of the Don; and the Torgo tive tribe of Soongaria, who migr Volga to the number of 55,000 famil but in consequence of vexations re-Russian agents, returned in 1771 to 1 the Emba. The Calmucks are descr of the ugliest in appearance of all t They are small and thin, w men. complexion, round faces, piercing e together, thick lips, wide nostrils, cheek bones, large and prominent black, thick, and bristling hair, whic from the greater part of the he ugliness is their title to purity of 1 are descendants of the Scythian be antiquity, and of the Huns who u terrified the southern nations of much by their hideous aspect as by city. They are slothful, but intellige violent, and deceitful, though hospita have extraordinary delicacy of sense of sight, and their memory is such tl them know by heart the songs of and long passages from their

mational epics. They are nomadic, dwelling in mical tents, which they arrange in straight sally consists of small kid boots, short trouers, a jacket with narrow sleeves, and a large hak. Their arms are the bow and arrow, the lace, and sometimes guns, scymitars, and pis-They devote themselves to the chase and to fishing, and their principal riches consist in boses and sheep. They are almost always on horseback, and have bow-legs, with their feet terned toward each other. In war they make their expeditions by night, attack suddenly and macre their enemies, and retreat with booty. Their ancient religion is Lamaism, though they have generally embraced Buddhism, and a few isolated branches of them have been converted to Christianity or Mohammedanism. or ghilongs, exercise great influence

m, but their oppressions have been much unminished in the Russian possessions by several ukases of the czar. Russia founded, in 1829, a special school for the education of interpreters and functionaries among the Calmacks.

CALOMARDE, or CALOMARDA, FRANCISCO
TABBO, count of, a Spanish statesman, born in
1975 at Villel, in Aragon, died in Toulouse,
France, in 1842. He was employed in the
effect of the minister of justice, and was made
chief of this department during the time
when the central junta, in order to escape
from the sway of Napoleon, sat at Seville,
interward at Cadiz. In 1814, on the reof Ferdinand VII., Calomarde was made

ecretary of the department of Indian af-Here he was convicted of bribery, and banished to Toledo, and afterward to Pamplom. In 1823 he received the appointment of secretary to the regency, and subsequently an important office in the royal household, in addition to which he was appointed minister of justice. He organized the corps of royalist volunteers, who proved efficient auxiliwies to the crown, recalled the Jesuits, reopened the convents, and closed the universities. In 1832, when Ferdinand's death was supposed to have taken place, Calomarde was the first to bend his knee before Don Carlos. The king recovered from the illness which for a time had threatened his life, but lingered in a semi-idiotic condition: of this Calomarde took advantage, by extorting from him his signature to the act of Dec. 31, 1832, in which Ferdinand abdicated in favor of Don Carlos. When Ferdinand revealed this fraudulent proceeding, Calomarde was expelled from the capital, and banished to his seat in Aragon, and only escaped imprisonment, to which a short time afterward he was condemned, by escaping to France in disguise.

Here he passed the rest of his days in obscurity.
CALOMEL. Mercury combines with chlorine in 2 proportions, forming the subchloride or calomel, and the protochloride or corrosive sublimate, the one consisting of 1 equivalent of chlorine and 2 of mercury, Hg. 2 Cl., and the

other of 1 equivalent of chlorine and 1 of mercury, Hg. Cl. The name calomel is probably derived from the Greek words maker, fair, and μελας, black; a black mixture being produced in the process of preparing it by rubbing mercury with corrosive sublimate, and this, when subjected to heat, yielding the white sublimate calomel. It occurs as an ore of mercury, which is called horn-quicksilver, found in the quicksilver mines of Adria in Carniola, Almaden in Spain, and other localities. It is in the form of a crystalline sublimation, coating other substances, and of granular structure. It is also crystallized in quadrangular prisms, of yellowish gray and ash-gray colors. Its hardness is 1-2, and specific gravity 6.482.— As prepared for medicinal purposes, calomel is either obtained as a powder by precipitation, or is reduced to a powdered state from the crystalline cake obtained by sublimation. It is a substance without taste or smell, insoluble in water, ether, and alcohol, and becomes black by exposure, without undergoing chemical change. For this reason it is necessary to keep it protected from the light. It requires a higher temperature than corrosive sublimate to volatilize it, and in the sublimation a portion is converted into mercury and the protochloride. By its entirely subliming when pure, non-volatile substances that may have been mixed with it, such as salts of lime barytes, or lead, may be detected. As calomel is liable to be contaminated with corrosive sublimate, by which mixture it may produce the most dangerous consequences, it is especially important to test it for this salt. A buff color is an indication of freedom from corrosive sublimate, but the very purest calomel, as that called Jewell's, is perfectly white. If calomel is washed in warm distilled water, and a white precipitate should fall on the addition of ammonia, this indicates the presence of corrosive sublimate. Caustic potash may also be used instead of ammonia, and will give when corrosive sublimate is present a yellow precipitate.-Various processes are given in the pharmacopæias for this preparation. The most common method is by sublimation. This may The most be done by mixing 4 parts of corrosive sublimate with 3 parts of mercury, and rubbing them together until the metallic globules entirely disappear, and then subliming. The product should be powdered and washed with boiling water to free it from corrosive sublimate. The process of the "U.S. Pharmacopœia" is as follows: "Take of mercury 4 lbs., sulphuric acid 8 lbs., chloride of sodium 11 lb., distilled water a sufficient quantity. Boil 2 lbs. of the mercury with the sulphuric acid until a dry, white mass is left. Rub this, when cold, with the remainder of the mercury in an earthenware mortar, until they are thoroughly mixed; then add the chloride of sodium, and rub it with the other ingredients till all the globules disappear; afterward sublime. Reduce the sublimed matter to a very fine powder, and wash it frequently with boiling distilled water, till the washings afford no

precipitate upon the addition of solution of ammonia; then dry it." A mode of preparation in the wet way is recommended by Professor Wheeler in the "Chemical Gazette" of July, 1854. The commercial corrosive sublimate is dissolved in water heated to 122° F., and sulphurous acid gas, obtained by heating coarse charcoal powder with concentrated sulphuric acid, is passed through the hot saturated solution. Calomel in the form of a delicate powder and of a dazzling whiteness, which glistens in the sunlight, is precipitated. The liquid, when saturated with the gas, is digested for a time, and when cooled is filtered from the calomel, which is afterward washed. This process has the advantage that it is easily available for making calomel in small quantities. The calomel of Mr. Joseph Jewell of London, sometimes called Howard's, which possesses the highest reputation, is prepared by causing the vapor to come in contact with steam in a large receiver. It is thus entirely washed from corrosive sublimate, at the same time that it is condensed into an impalpable powder. Its extreme fineness appears to give it more activity as a medicine than is possessed by the calomel obtained by levigation and elutriation.-In the use of calomel as a medicine, particular attention should be given to its liability to generate corrosive sublimate by decomposition. effect may be produced by bitter almonds or cherry-laurel water, or any other substance containing hydrocyanic acid, being administered simultaneously with it. Nitro-muriatic acid produces the same effects, as also, to some degree, the chlorides of potassium, sodium, and ammonium. It is rendered ineffectual by the alkalies and alkaline earths. Calomel is regarded as the most valuable of the mercurial preparations, though the homeopathists and some other medical innovators reject it. It is employed as a purgative, operating chiefly upon the liver by stimulating its secretory functions. Being slow in its action, and liable to salivate if too long retained, it is usually administered with some other cathartic. It is also given as a remedy for worms, and as an alterative in derangement of the liver in small doses administered once in 24 or 48 hours. In yellow and malignant bilious fovers, violent dysentery, and malignant cholera, it has been effectually administered in repeated doses of 20 grains or more each. This use of it is much approved in hot climates, though not so well adapted to colder latitudes.

CALONNE, CHARLES ALEXANDRE DE, a French statesman, born in 1734, at Douay, died Oct. 30, 1802, in Paris. Belonging to a good family he was appointed to several judicial offices, in which he gave evidence of quickness of mind, boldness of conduct, and easy conscience. This became especially apparent in the prosecution against La Chalotais, attorney-general of Brittany, in which he played a part neither just nor honorable. But he had meanwhile secured the favor of influential persons, such as the count of Vergennes, secretary for foreign affairs, and

ingratiated himself with the second broth of the king, the count of Artois. He had in pressed them with such a high opinion of his political talent and financial capacity, that the judged him the only man able to overce the difficulties which Necker himself had as succeeded in postponing. He was consequ ly, in 1783, appointed comptroller-genera a finance. His first acts seemed fully to just the anticipations of his protectors; money wa abundant in the treasury; Calonne shows himself ready to gratify the most extravage wishes of the queen and the princes; to comp troller had ever been so popular among th courtiers; and consequently none was repute so skilful. But this seeming pro-perity ha been procured, not by fostering true weak in the nation, but by the dexterous mat agement of extraordinary resources, the fa quent and at first successful negotiation (loans, and the exhaustion of all branches (the revenue. Such a system, the only cons quence of which was to increase the defic at a fearful rate, could not last long. The los of reckoning came. Calonne, being at his wit end, resolved to adopt the desperate m of summoning an assembly of notables. session opened Feb. 2, 1787; the comptrous came out with his wonted boldness, unravelle the difficulties of the situation, acknowledge that within the last few years the loans ha amounted to 1,250,000,000 livres, while the annual deficit had increased to 115,000,00 and declared that the only remedy was 1 reform altogether the financial system by e tending the taxes over the property of the nobles and clergy. These astounding disch sures, coming from such a man, fell like thunderbolt on the court; a hue and cry raised against Calonne, whom the king at our dismissed from office and exiled to Lorrain He afterward removed to England, where I wrote several memoirs justificative of his ministration; but he had to contend again Necker and several other able financier, # could not but come out second best. His no tation for ability was not, however, entire ruined, and he afterward became a most sets agent of the French émigrés at Coblentz an adviser of his protector, the count of A tois, he now evinced the same boldness a ingenuity, but also the same levity, as in I former life. He ultimately separated in di from his party, and asked from the first cou Bonaparte, permission to return to France This was granted, but death overtook him few weeks after his return.

CALORIC (Lat. calor, heat), the name forms ly applied to an imaginary material substans supposed to be the cause of the phenomena heat. As now used, it is synonymous will Heat, which see.

CALORIMETER (Lat. calor, heat, Gr. purmeasure), an instrument for ascertaining amount of heat in bodies. The first used this purpose was contrived by Lavoisier

was directed to determining the quantity of heat developed by the of definite amounts of fuel. The m of this was effected in a cylinder, was let down into a larger one filled m with pounded ice. Another outer cylof all also contained ice, which prevented he middle cylinder from being affected by we external temperature. The heat from the innermost vessel caused the ice to melt in the spinder next to it, and the water thus prodeed ran off through a pipe passing through the bottom. Every pound of this they calculated represented an amount of heat sufficient to nise a pound of water from 82° F. to 185°, 103 lbs. one degree. Prevostaye, De-Regnault, and others, subsequently cor-I this calculation, proving that the heat much melts one pound of ice will raise the quantity of water to 142°. The practical m of this principle, however, did not correct results, all the water not leaving wice. Rumford introduced a better method by substituting water for the ice, and ascer-taining by a delicate thermometer the increase of temperature in a definite weight of this, cased by the absorption of the caloric. It was on this principle that the improved apparatus of Pare and Silberman, made use of in their experments, was founded. The innermost vessel, of gilt sheet brass, shaped like a flask, was sunk, except its projecting neck, in a cylinder of silvered sheet copper containing water, which was placed in a larger cylinder, the space between them all around, and at top and bottom, being filled with swan's-down. Both cylinders were covered with lids provided with apertures for the insertion of tubes and thermoineters. One of these tubes, entering the flask near the bottom, served to convey oxygen gas for supporting combustion. The gaseous products passed into another tube, which, emerging from the shoulder of the flask, bent over, and passing through the water, was coiled around under the flask like the worm of the still. It then passed up through the top to a gasometer or an absorbing apparatus. A flat metallic ring, nearly the diameter of the water Glinder, lay at the bottom of the water; and being provided with a rod for a handle which Persed up through the top, it could be moved up and down, to thus equalize the temperature throughout the liquid. The gases to be tested were introduced into the flask by a small tube entering its neck and turning up at the bottom to form the jet. Solid bodies were suspended by fine platinum wires; liquids were burned in small capsules, or in lamps with asbestus wicks; charcoal was laid on a sieve-like shelf, the Oxygen coming up through it. Thermometers introduced into the water indicated its increase of temperature.—For ascertaining the heat Senerated where no gases are evolved, these chemists employed a glass globe filled with mercury, and having a tube inserted so as to hold, near the centre of the globe, the sub-

stances to be tested. The globe was provided with a spout like that from a tea-kettle, and in the top of this was inserted a thermometer tube, which, bent at right angles, served on its horizontal limb to measure the expansion of the mercury.

the mercury.

CALORIMOTOR (Lat. calor, heat, and movee, to move), that form of the galvanic battery by which its plates, few in number, but of great size, are made to evolve an intense degree of heat, making metallic wires red hot, and igniting inflammable bodies. The arrangement of the apparatus, made with this object, was invented by Dr. Robert Hare, and was described by him in a paper read before the academy of natural sciences, Philadelphia, and also published in the "American Journal of Science" (1818), vol. i. p. 413. See Blasting, and also Electro-Dynamos.

CALOVIUS, ABRAHAM (German, CALOV), a German Lutheran divine, born Aug. 16, 1612, at Mohrungen, in Prussia, died in Wittenberg, Feb. 25, 1686. He was recter at Dantzic, and professor of theology at Wittenberg; engaged in numerous theological controversies, conducted with much intemperance on each side; was a rigid adherent of his sect, and opposed the Socinians, and also the conciliatory views of George Calixtus, to which he was the first to

apply the name of Syncretism.

CALOYERS, or Calogeri (Gr. Kados yepun a handsome old man), Greek monks, mostly of the order of St. Basilius. Their principal convents are on Mount Athos, and are especially resorted to by young men of good family, who find there excellent teaching, and a reputable mode of life. The pupils not only read the Greek fathers, but other Christian writings; and those who desire it, receive a systematic course of theological instruction. The regular clergy of the Greek church is generally recruited here. Those who prefer monastic life are bound to celibacy, to abstain from meat, and observe 4 lents in the year, beside other fasts. They wear a dark cassock, with a belt and a flat cap of the same hue. This is also the costume of the secular clergy, except a white band round the lower part of the cap. Some convents of Caloyers are to be found in the Morea; but they are, in point of learning and discipline, inferior to their brethren in the north. Among the Caloyers, beside those who live in congregations, there are anchorets, who prefer dwelling alone, or with 1 or 2 companions, in hermitages; and recluses, who live in grottoes or caverns, on alms furnished to them by the monasteries. There are also convents of female Caloyers.

CALPE, the ancient name of the rock of Gibraltar, at the S. extremity of Spain, the northern of the 2 hills called by the ancients the pillars of Hercules. Across the straits of Gibraltar, on the African coast, was Abyla, the southern pillar.

CALPEE, or KALPEE, a town of British India, in the district of Bundelcund, presidency of Bengal, situated on the right bank of the

Jumna, 45 miles S. W. of Cawnpoor. It is a large, populous, but ill-built town, with a fort commanding the passage of the river, advantageously situated, but of no great strength. The town was once a place of more note than at present, and was the seat of a mint. still an important depot for the cotton trade of Bundelcund, and is famous for the manufacture of remarkably fine refined sugar. Papermaking is also carried on to some extent. Pop. in 1853, 21,812.—Calpee is said to have been founded as early as the 4th century, by a sovereign of Cambay. After passing through many hands, it was taken from the Mahrattas by the British in 1778, was subsequently relinquished, and in 1802 was again acquired by the East India company by the treaty of Bassein. It was at that time occupied by Nana Govind Rao, jaghiredar of Jaloun, who refused to give it up to the British, and was accordingly besieged, and finally forced into submission. In 1857 it became a place of rendezvous for the disaffected sepoys, and by the spring of 1858 an army of mutineers, said to be 10,000 strong, had assembled there under the command of the rance of Jhansi and several rebel native princes. Sir Hugh Rose marched against them from Jhansi, May 26, defeated a force of 7,000 stationed on the road to oppose him, and reaching Calpee, captured it after some hard fighting. The sepoys took to flight, were pursued, and a large amount of ammunition, stores, and a number of elephants, and guns, fell into the hands of the British. By the accounts, howover, which left Calcutta by the mail of June 3, the rebels were reported to have routed the forces of Sindia, and to have marched on Gwalior.

CALPURNIUS, Tirus Julius, a Latin pastoral poet, born in Sicily, lived near the end of the 3d century; 11 ecloques have come down bearing his name. The efforts of German scholars to know more than this have resulted in several different plausible, but imaginary, lives of the poet; and in one instance he has been blotted out from history, and a certain Servanus mentioned by Juvenal substituted in his place. His ecloques, too, have been variously divided and distributed between himself, his contemporaries, and his copyists. There is considerable resemblance between these eclogues and those of Virgil.

CALTAGIRONE, or CALATAGIRONE (per-haps the anc. Calata Hieronia), a city of Sicily, in the province of Catania; pop. 21,700. built on the slope of a hill, and with its suburbs covers a considerable extent of ground. It is the see of a bishop, and is reputed one of the wealthiest and most commercial towns on the island. Its inhabitants excel in all the useful arts, and many of them find employment in the potteries and cotton factories of the place. There are several churches, convents, and a royal college. The town was fortified by the Saracens, and taken from them by the Genoese. Roger Guiscard granted it many privileges.

CALTANISETTA, a town of Sicily, capital

of the province of the same name, is situated a fertile plain near the right bank of the Sa 65 m. S. E. of Palermo; pop. over 16,000. is well built, with broad, straight streets, a h some square, and several fine edifices. L vicinity are several jets of hydrogen gas, a extensive sulphur works.

CALTROP, a kind of thistle which grows France and Spain, and is troublesome to 1 feet of cattle.—In military tactics, an iro strument with four points, so formed, however thrown, one will always project i ward. They are used to prevent the onet

cavalry.
CALTURA, a seaport town in the S. W. p of Ceylon, about 28 miles S. E. from Coloni It has a brisk trade, especially with Madra the Coromandel coast, and contains a chapers school established by Wesleyan missionaries CALUMET, a kind of pipe, the symbol

peace among the American Indians. The k is made of a soft marble, and the stem is a long reed adorned with feathers and un glyphic figures according to the rank of to owner. The calumet is introduced upon important occasions when Indian chiefs together, or meet with whites. It is f only with tobacco, but with the leaves on rious other plants, and is passed round for ev member of the company to take a few w To receive the calumet when thus passed fies that the terms proposed are accepted.

CALUMET, an eastern county of Wiscon along the eastern shore of Winnebago la area, 360 sq. m.; pop. in 1855, 3,631. face is mountainous, a high ridge running the county nearly parallel with the lake. soil yields excellent crops of corn, wheat, l ley, oats, and hay. Timber is abundant, pasturage is good. The productions in 1 were 7,827 bushels of wheat, 8,428 of oats. 532 of Indian corn, 8,887 of barley, 9,116 potatoes, 846 tons of hay, and 21,588 pound butter. There were 4 saw mills, 3 churc butter. There were 4 saw mills, 3 chur and 173 pupfls attending public schools. ganized in 1842. Capital, Chilton.

CALUMICK, or CALUMET RIVER, rises in Porte co., Indiana, flows westward into Illit and there divides; one of its branches en Lake Michigan, the other makes a bend, 1 eastward parallel with its former course, only 3 or 4 miles north of it, recrosses the diana boundary, and discharges its waters

Lake Michigan, in Lake co.

CALVADOS, a maritime department France, divided into 6 arrondissements: C Falaise, Bayeux, Vire, Lisieux, and Pont l'1 que, bordering on the English channel, and riving its name from a long reef of n its coast. It is watered by several rivers most important of which is the Orne, but I of them is navigable for any considerable inland. The climate is rather cold and the surface, which in some parts is it by elevated hills, possesses fine plai tiful valleys, among which that of a

ebrated. Agriculture is in an advanced state, there being a large surplus of wheat for exportation; the crops of barley, rye, and buckwheat ere considerable, but that of oats is insufficent for home consumption. Excellent apples are cultivated everywhere, principally to make cider, which is the common beverage of the country. Few, if any, departments of France can compete with this in live stock. The horses are reckoned the finest in France. Numerous herds of cattle are fattened in the valleys for the markets of Paris, Rouen, and Caen. Some manufactures are successfully carried on, especially lace; many hands are also occupied in the spinning and weaving of cotton and wool; there are beside, factories of cutlery, hardware, earthenware, paper mills, &c. The total value of the raw material consumed averages about \$10,000,000, and of the manufactured articles, \$13,000,000 annually, giving employment to about 20,000 persons, whose average daily wages are about 50 cents for men, 25 cents for women, and 17 cents for children. The mackerel and herring fisheries are extensively carried on along the coast. Although destitute of good ports, this department has a considerable export trade with several countries of Europe and the United States, mostly carried on through Havre. Area, 2,145 sq. m.; pop. in

ES56, 478,397.
CALVAERT, or CALVAET, DIONYSIUS, surnamed DIONISIO FLAMMINGO, a painter of the Bolognese school, born in Antwerp in 1555, died in Bologna in 1619. He had a school in Bologna, thronged by pupils, including Guido,

Albano, and Domenichino.

CALVARY (the Latin translation of the Hebrew word Golgotha, meaning the place of a skull) was, 1,900 years ago, a pebbly and arid little hill on the north of Jerusalem, just outside of the walls. It was a tradition that Adam was buried there, and that Abraham led thither his son to the altar of sacrifice. It was the Place of public execution among the Jews, and a large vacant space was left between the mount and the wall of the town for the presence of spectators. The other sides of the eminence were occupied by gardens. Calvary was the scene of the crucifixion of Jesus Christ, whose body was laid in a sepulchro prepared in a garden near by, which belonged to Joseph of Arimathea, a secret disciple. Since that time the face of this region has much changed. Neither agriculture nor trade flourishes in the vidnity. Titus destroyed the temple of Jerusaem, and Hadrian demolished the city itself. The atter, wishing to blot from the Jewish mind he traditions of their sacred places, erected a tatue of Jupiter upon the holy sepulchre, and Venus upon the summit of Calvary. ithin two centuries these were overthrown, id the place of the latter occupied by the arch of the Holy Sepulchre. In the wars of Mohammedans and the crusaders this was ntedly destroyed and replaced; and while o mount was occupied by the Christians, they

erected the stately temple, the walls of which still remain.

CALVERT, a southern county of Maryland, on the shores of Chesapeake bay; area, 250 sq. The Patuxent river forms its western boundary, and empties into the bay at the southern extremity of the county. The surface is rolling; the soil is good, and much improved by the application of marl, which is found here in considerable quantity. The productions in 1850 were 3,109,258 lbs. of tobacco, 351,890 bushels of Indian corn, 67,489 of wheat, and 23,644 of There were 25 grist mills, 1 saw mill, 11 churches, and 875 pupils attending public schools. The county was formed in 1654, and named in honor of the family to which Lord Baltimore belonged. Pop. in 1850, 9,646, of whom 4,486 were slaves. Capital, Prince Frederick.

CALVERT, the name of a distinguished English family, descended from an ancient and noble house of the same name in Flanders, and connected for several generations with the colonial history of Maryland.—Sir George Cal-VERT, the first baron of Baltimore, born at Kipling in Yorkshire, about 1582, died in London, April 15, 1632. He graduated at Oxford in 1597, when but 15 years old. According to the custom of the time with persons of rank, he was sent abroad to travel, and on his return was appointed secretary of Robert Cecil, afterward earl of Salisbury. On Cecil's appointment as lord high treasurer, Calvert still continued in his service. At a subsequent period, Cecil procured for Calvert one of the clerkships of the privy council. He received the honors of knighthood in 1617, and James I. appears to have always held a high opinion of him. At length he was appointed one of the 2 secretaries of state, and in 1620 he was granted an annual pension of £1,000. Five years after this time, he took refuge from the religious controversies which distracted parties, by joining the Roman Catholic church; a movement which, however, did not bring him into disfavor with James. Of late years some controversy has arisen between Protestant and Catholic writers, in regard to the account of his conversion. the date of the Avalon charter, he is generally reputed to have been of the Protestant faith, but says Fuller, in his "Worthies of England," when he resigned his post of secretary of state in 1624, "he freely confessed to the king that he was then become a Roman Catholic." This passage is the chief authority for his conversion; but those who disbelieve the story of Calvert's change of creed, maintain that the author of the "Worthies" has not sufficient ground for his statement, and in short that Calvert was never converted at all, having always been a Catholic. They base their arguments on the fact that he settled his colony in Newfoundland in 1621, he having a wish, according to Oldmixon and Bozman, to found an asylum for persecuted Catholics, and therefore he must have been a Catholic then, 8 years before the date

assigned by Fuller. They further assert that his 12 children were all brought up in the Catholic faith, no record whatever of their conversion existing, and his marriage with Anne, daughter of George Mynne of Hertfordshire, and granddaughter of Sir Thomas Wroth of Durance, in Enfield, Middlesex, having taken place in 1604-'5. Their strongest arguments, however, are the repeated declarations of the king against Catholics, those who were apostates from Protestantism falling under his severest displeasure. In his speech delivered at Whitehall on the opening of parliament in 1609, he says, "I divide all my subjects that are papists into 2 ranks: either old papists that were so brought up in times of popery, and those that be younger in years, yet have never drunk in other milk; or else such as do become apostates, having once been of our profession and have forsaken the truth. For the former sort, I pity them, but if they be good and quiet subjects. I hate not their persons. But as for these apostates, who I know must be the greatest haters of their own sect, I confess I can never show any favorable countenance toward them;" and in 1616, in his star chamber speech, he says: "I can love the person of a papist, being otherwise a good man and honestly bred, never having known any other religion; but the person of an apostate papist I hate. spite of such sentiments Calvert always retained the king's regard. Catholic writers, however, insist upon the conversion, and bring forward testimony in turn to support their asser-The king retained Calvert in the privy council, although he resigned his place as secretary of state, and in 1625 he was elevated to the Irish peerage by the title of baron of Baltimore, in the county of Longford, Ireland. vert had long been imbued with the idea of planting colonial establishments in America, and obtained a patent from King James which created him sole lord and proprietor of a part of the island of Newfoundland, and with all the rights and privileges of nobility. To this place, which was styled Ferryland, he sent a colony in 1621, and he spent of his own fortune full £25,000 in building warehouses and granaries, as well as a superb mansion for his own accommodation. He followed in 1625, about the time of King James's death, but was completely disappointed with Newfoundland, the climate proving too severe for English constitutions, and the soil too rugged to be worked with profit. After remaining a few years, he abandoned the colony and sought a more genial clime. In 1628 he visited the Virginia settlements and explored the waters of the Chesapeake bay, delighting in its magnificent expanse and noble tributaries, and in the delicious climate and the naturally fertile lands of that fair region. The waters of the bay and its rivers abounded with fish and wild fowl, and the woods were vocal with the song of birds. A tradition exists to this day in Maryland, that Lord Baltimore was charmed with the appearance of the oriole (yphantes Baltimore) giving

it his name, and choosing its brilliant black orange plumage for his livery. But the retion he met in the Virginia colony was by means cordial; there the church of En party had full sway, and the authorities to ed to him the oath of supremacy, which a Roman Catholic he could not take, and in disappointment it is supposed that he formed plan of obtaining a new charter from Charles and seeking to plant a colony in a more we ern latitude. From 1628 to 1632, little is respecting Lord Baltimore, but he is sup to have returned to the settlement in Newfor land, as history relates that he rendered serin the war then carried on between England France, and he is said to have rescued 20 of fishing vessels (those of Newfoundland the time being upward of 250 in numbers ter they had been captured by a French : ron. He returned to England, and in the year applied to the king for a renewal u former charter, with the privilege of a new k tion, and his petition was acceded to. were taken toward the drawing of the and there is no doubt that the draft of the a ter "was penned by the first Lord Baltim himself, although it was finally issued for benefit of his son." The territory granted that which now forms the states of Marvl and Delaware, but Lord Baltimore died the papers could be duly executed. T anxious for the hereditary privileges of bility, the character of Calvert will eshine as that of one who cherished liberty conscience. In this respect he was in vance of the general bigotry of his and his memory is accordingly revered, only by the people of Maryland, but by who are interested in the history of civil: religious freedom. A complete life of L Baltimore is now (1858) in course of prept tion by Mr. Sebastian F. Streeter of Baltimore CECILIUS, son of the preceding, and the baron of Baltimore, born in 1623, died in 16 On June 20, 1632, the charter which had b intended for his father was executed for by the command of Charles I. It consisted 23 sections, the 4th of which conferred on L Baltimore and his heirs forever, absolute own ship of the territory granted, and also cert civ.l and ecclesiastical powers, like those from the middle ages and continued in the ilies of the most powerful nobility. The ner in which this design of fastening upon colony the institutions of the feudal system 1 defeated, forms a very interesting feature is early history of Maryland. The name first tended for the colony was Creso land was adopted instead, in o as wo queen, Henrietta Maria. The remuons wh Calvert as proprietor bore to his sover expressed in the charter in the obscure of such instruments in that age, but its ... is, that by the annual payment of 2 arrows, Lord Baltimore acknowledges original title to the land is still in the

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king, and that the soil granted to belongs to the British empire. Entire on from taxation was conceded to mists, the very point which, a cenm. Lord Baltimore did not emigrate ica, but gave the management of the to his brother.—LEONARD, brother of preceding, first governor of Maryland, June 9, 1647. For some reason Lord e decided not to go in person to plant land colony, and his brother Leonard rdingly deputed to conduct the expedithe first emigration took place in 1688, after the voyage of the Mayflower to uh, and consisted of about 200 persons. them were 3 Jesuits, one of whom, Father corresponded with the superior of his rues in Rome. A copy of his letters has been obtained, and although princing to the work of the mission among is, they contain an interesting and use account of the first settlement in and. On Nov. 22, 1633, the Maryland sailed from Cowes, Isle of Wight, in i vessels: the Ark, a ship of 300 tons, me Dove, Lord Baltimore's pinnace, of 50 tons. They sailed by way of the islands, and were 8 months upon the although they were at sea only 7 weeks 3. They suffered considerably from bauer, and Father White says "it seemed he spirits of storms, and the evil and genii of Maryland, had come forth in array against us." From the Canaries steered for Barbadoes, and after touching and at 1 or 2 of the neighboring islands, were reached Point Comfort in Virginia, Feb. Here they were entertained for some and on March 8 sailed up the Chesapeake the Potomac, landing at an island which called St. Olement's, and on the 25th of the "the day of Annunciation of the Holy Mary, offered in this island, for the first in this region of the world, the sacrifice of A large cross hewn from a tree wu set up, and "we raised it a trophy to the Saviour, humbly chanting on bended nd with deep emotion, the litany of the Proceeding from this island about 9 toward the north, they entered a river u they called St. George's. "Two bays at its mouth, capable of containing 800 of st ships. One of the bays we consew St. George, the other more inland to slessed Virgin Mary. We landed on the Mank, and having advanced about 1,000 from the shore, we gave the name of St. and military ceremonies accompanied the of taking possession, March 27, 1684; men were drawn up on the shore and fired ^{9vs} of musketry, while the cannon answered ships. Of this city of St. Mary's at ent day scarce a trace remains, and by er even its site would be unnoticed.

While the missionaries were making friends with the Indian tribes, Calvert found much to harass him. Before his arrival, Kent island in the Chesapeake bay, situated nearly in the centre of Lord Baltimore's province, had been occupied by a certain William Clayborne, and this man was the source of much trouble to Calvert during his whole life. When the patent was made out for Lord Baltimore, Kent island became a part of Maryland, and Clayborne owed allegiance to Calvert as proprietary. It seems that his character as a bold, unscrupulous man was known to Lord Baltimore before the colonists sailed from England, and the proprietary had issued orders that if he attempted to resist the authority of his brother Leonard, he should be seized and punished. Clayborne, however, did not wait for any summons to surrender, but declared war on his own account against the settlers at St. Mary's. There is abundant reason to believe that he was abetted in his designs by the Virginian authorities at Jamestown, who looked with an evil and jealous eye on the colony of Maryland. Clayborne fitted out an armed pinnace, manned by 14 men, and on April 28, 1635, his force engaged 2 other pin-naces prepared by Gov. Calvert to resist his aggression. Clayborne's vessel was captured with a loss of several men, and he himself fled to Virginia, whence he was deported to England. In 1688 he presented a petition to the king, setting forth his grievances, which however obtained him nothing, and he returned to Virginia, where, to his mortification, he found that the governor and council of that colony, having now fully recognized Lord Baltimore's rights, forbade any one in their jurisdiction from trading within his domain—Clayborne being thus now restrained by the authorities of Virginia in the very thing in which he had been formerly encouraged. His property on Kent island had, meanwhile, been declared forfeited by the provincial assembly of Maryland; he petitioned for its restoration, and, as a dangerous rebel, was refused. He eventually sought revenge, as we shall relate in order, and meanwhile retired to Virginia.—As Lord Baltimore belonged to the aristocracy of England, he was anxious, in planting his colony, to establish within it similar hereditary titles and privileges to those which, in the mother country, had come down from the feudal system, and therefore the tenure of lands in Maryland was at first intended to found an order of nobility. signed that the lands should be owned in large masses, and the original conditions of emigration were in accordance with this plan. In his special order of commission to his brother, dated at Portsmouth, Aug. 8, 1636, he renews these conditions, and had these provisions been fully established, a great part of Maryland would have been parcelled out in grants of 2,000 or 8,000 acres of land, giving to their proprietors not only the right of soil, but of holding courts leet and courts baron to decide upon personal claims, and also of property. These rights of 280 CALVERT

jurisdiction were to descend from the original owner to his heirs. In order, however, to found an aristocracy upon a solid basis as it existed in England, it was also necessary to establish titles, primogeniture, and hereditary legislation, such as is penetuated by a house of lords: The provision for titles and dignities had been sketched by Lord Baltimore, but he could not secure the other provisions without a written constitution, expressly enacting all the features of a body of aristocracy. Beside, in the charter itself was a provision which, in effect, nullified the one for creating an aristocracy, inasmuch as it prescribed that laws could only be made with "the advice, assent, and approbation of the freemen of said province, or of the greater part of them, or of their delegates or deputies." The idea of founding an aristocracy seems, from the very first, to have been of no effect, as no single title was ever created, and none recognized, but that of the proprietary himself; so that in due time, when the country revolted against the authority of England, Maryland was found to be as democratic as any of her sister colonies. It is true that in some of the early manors baronial courts were held. A record of one is still preserved, and runs as follows: "A court baron was held at the manor of St. Gabriel, on March 7, 1656, by the steward of the lady of the manor, when one Martin Kirk took of the lady of the manor, in full court by delivery of the said steward, by the rod, according to the custom of the said manor, one messuage, lying in the said manor, by the yearly rent ; and so the said Kirk, having done his fealty to the lady, was the moof admitted tenant." Such instances were, however, very rare; and moreover, a difference springing up between Lord Baltimore and the colonists, as to the right of originating laws, many of the acts of the assembly of 1637, among which were 6 relating to manors, never took effect, and there was no after attempt to revive them. manors, in fact, intended to lay the foundation of powerful families, were soon subdivided, and became mere farms belonging to the different descendants of the original proprietors. last one ceased to exist in its entirety with Charles Carroll of Carrollton, the latest surviving signer of the declaration of independence, although a part of it now forms a fine estate in the possession of his grandson, and is styled "The Manor." Meanwhile, the troubles in England between the king and parliament, ending in 1648 in the overthrow of the monarch and the aristocracy, had great effect upon Maryland in frustrating the design of establishing nobility.-Much trouble was experienced in the early days of the colony in regard to the laws intended to govern it. Had Lord Baltimore accompanied the expedition, he would have been able to see what laws in the infancy of the colony were necessary, and what were expedient. But, at the last moment, he decided to remain, so that the one who was most important to the law-making power was not to be communicated with under 8 or 4 months, and it was soon found that tion of the proprietary in England for can colony would not answer. Th was also increased by the vague charter, which did not clearly expre the laws were to be originated by tl or the proprietary. On this account. years the colony held together witho at all, but in great danger of anarch Lord Baltimore magnanimously with what he considered his just right, an to the colonists permission to framlaws, reserving only to himself, or hi veto in case of necessity. After th of Maryland had been fairly organia laws were passed in relation to reliby some writers have been made the extravagant praise, while others ha neglected to award them due mer not appear that Lord Baltimore, or settlers, had an intention on founding of proclaiming absolute religious fr one of the first acts of the assemi was to make the Roman Catholic creed of the state. But the true s Catholics of Maryland, in that age of was their permission for all bodies of to worship God according to their In "an act for the liberties of the was declared that "all Christian (slaves excepted) are to have and en rights, liberties, immunities, privileg customs within this province, as born subject of England hath or have." At the same time, to she Roman Catholic faith was predon ing flesh in time of Lent was forbic penalty of a fine, and this was obligate estants as well as Catholics. For after this time another law was par expresses even more clearly the right tants, and breathes the purest spirit freedom. A portion of it declare person or persons whatsoever, profe lieve in Jesus Christ, shall from hence way troubled, molested, or discounte and in respect of his or her religion. free exercise thereof, nor in any wa to the belief or exercise of any oth against his or her consent." At the was forbidden to blaspheme against Virgin Mary, or the apostles or evi to reproach any one with the epiths tic, schismatic, or idolater, or for be ritan, Independent, Presbyterian, Pc Jesuit, Jesuited Papist, Lutheran, Anabaptist, Brownist, Antinomian, Roundhead, or Separatist." thus freely granted continued alway joyed, and redounds to the honor nists, and no less of Lord Baltimor claim of absolute religious freedom, solution of all connection between state, did not, as some zealous write deavored to prove, originate in Mar Roger Williams, the founder of Rh

is this honor due, and to him alone. As the withements of the whites extended in Maryland, he Indians, who for a number of years had preserved friendly relations with them, became troublesome, and as early as 1638 it was found meessary to pass an "act for military discipline." Troubles with the natives continued to increase for several years, and reached their height in 1642. Aid on several occasions was sought from Virginia, and in 1643 the natives were that out of the province, or rather that part of it forming a peninsula, from tide water on the Patazent river by a direct line crossing to the Potomac.—During the 9 years which had now elspsed since the landing of the Maryland pilgrims, a great change in political affairs had taken place in England; the king had been deprived of nearly all power, and was about entering on that civil war which cost him his throne and life. The colonists were more or less affected by the convulsion, and Maryland in an especial degree. Lord Baltimore and his brother Leonard had every reason to fear that they would be deprived by parliament of all their rights and possessions in the new world, the proprietary being strongly interested in the myal cause. Leonard Calvert, in order, doubtless, to consult with his brother, and shape his conduct for the future, visited England in 1643, returning the following year. In his absence much trouble was experienced from the conduct of one Ingle, and this man, in connection with Calvert's old enemy, Clayborne, harassed the settlement at St. Mary's. On the governor's return, he found every thing in confusion, and although he brought a new commission from his brother, confirming him in all his previous powers, Clayborne, in connection with Ingle, who is supposed to have been little better than a pirate, regained possession of Kent island, invaded the western shore of the Chesapeake, and expelling the proprietary government, compelled Gov. Calvert to retire to Virginia. Among other property, the colonial records fell into the hands of these marauders, and were greatly mutilated, and in part destroyed. This happened in 1645, but 2 years after Leonard Calvert returned with a strong military force, took Possession of Kent island, and reëstablished his rights over the entire province. But Calvert had probably been much afflicted, and his various anxieties both for the state of England and of Maryland doubtless hastened his end. The circumstances of his death are unknown, only that he named a successor as governor, Thomas Green, and died on June 9, 1647. It is greatly to be regretted, that at this day such meagre records exist for memorials of Leonard Calvert and his brother, Lord Baltimore; but, "together they raised up a community unsurpassed in this Western world for order, harmony, and general prosperity; and the scanty materials of its early history are in no small measure owing to the fact that, as history deals principally in wars and calamities, the happiness of the early inhabitants of Maryland left little to record."

CALVERT, GEORGE HENRY, an American author, born in Baltimore, Md., in 1803. His father's ancestors were distinguished both in colonial and European history, and his mother was a native of Antwerp, and a lineal descendant of the painter Rubens. He graduated at Harvard college in 1823, and afterward studied at Göttingen in Germany. On returning to America, he edited for several years the "Baltimore American" newspaper. In 1832 he published his "Illustrations of Phrenology," the first American treatise on the subject; in 1833, a "Volume from the Life of Herbert Bar-clay;" in 1836, a metrical version of Schiller's Don Carlos; in 1840, a fragment on "Arnold and André," 2 cantos of "Cabiro," a poem in the stanza of "Don Juan," and a tragedy entitled "Count Julian." He soon after again visited Europe, and, in his letters to the "Baltimore American," was the first to announce and discuss in this country the theory of the watercure. He translated and published in 1845 a portion of the correspondence between Goethe and Schiller, and in 1846 and 1852 published 2 series of "Scenes and Thoughts in Europe." Hydropathy and the schemes of Fourier were among the subjects which he treated. Except when engaged in foreign travel, Mr. Calvert has resided since 1843 in Newport, R. I., of which city he was mayor in 1853. In the same year he was the orator at the celebration of the 40th anniversary of the battle of Lake Erie. He has contributed occasionally to the "North American Review," "Putnam's Monthly," and other

literary periodicals.
CALVI, LAZZARO AND PANTALEONE, two Genoese painters, sons of Agostino Calvi, of whom the former was born in 1502 and died in 1606, and the latter died in 1595. They painted in concert many pictures in Genoa, Monaco, and Naples. In particular, the façade of the Palazzo Doria (now Spinola), a spirited composition crowded with figures, is highly extolled. Lazzaro was the more inventive genius of the two, his brother generally working out the details of their joint productions; but his disposition was envious, and his career was marked by atrocious crimes. Having failed in competition with Cambiaso to secure the execution of the frescoes in the church of St. Matteo, in Genoa, in a fit of rage he renounced his art, and for 20 years followed the calling of a sailor. At the end of this period he resumed his pencil, and

continued to paint until his 85th year.

CALVIN, John, the theologian and organizing genius of the Reformed churches, was born at Noyon, near Paris, July 10, 1509, died in Geneva, May 27, 1564. The grandfather of Calvin was a cooper. His father, Gérard Chauvin, or Cauvin (sometimes written Caulvin), apostolic notary and fiscal procurator in Noyon, was a man of shrewd intelligence; his mother, Jeanne Lanfranc de Cambrai, noted for her

beauty and her devotion, imbued her son with her own strict religious views. He was educated, at his father's expense, with the children 282 CALVIN

of the noble De Mommor family. At the age of 12, he was presented by one of this family to the benefice of the chapel de la Gesine, to defray the cost of his education for the priesthood. He was already noted for his memory and diligence, as well as for his moral strictness. Among the youth he was known as the "accusative." Removed to Paris with the Do Mommor children, he prosecuted his studies in the collége de la Marche, where Mathurin Cordier, an able scholar, taught him Latin; and then in the college Montaigu, where a Spaniard initiated him into the scholastic dialectics. At the age of 18, though he had only received tonsure, he obtained the living of Marteville, Sept. 27, 1527, which was in 2 years exchanged, July, 1529, for that of Pont l'Évêque, the village where his grandfather had made wine casks. He preached short sermons, and continued his studies with the greatest assiduity. After a frugal evening repast, says Beza, he would study till midnight, and in early morning before he rose he would review all he had learned the previous day. His ambitious father, foreseeing his fame, perhaps alarmed by the prospective troubles in the church, and thinking the legal profession a surer road to wealth and parliament, now changed his plans, and sent his son to Orleans to study law under that eminent jurist, Pierre l'Étoile (Peter de Stella). This training unconsciously prepared him to be the legislator of Geneva. About the same time the influence of his relative, Robert Olivetan, who translated the Bible into French, led him to question his traditional and unawakened faith. By day he pursued the study of the law, and by night the study of the Bible, with what commentaries he could command, to resolve his growing doubts. In the law he made such progress that several times in the absence of the professor the youthful student was called to fill his place. A radical change in his religious views was marked by what he himself calls "a sudden conversion," which seems to have at once broken the thraldom of the medieval system. "The secret guidance of God's providence," he concisely tells us, "delivered him from the superstitions of the papacy." Henceforth he sought the society and confirmed the opinions of those who were struggling for the new light. His protracted studies and mental conflicts already preyed upon his health, and his whole subsequent life was a contest with death. His legal and theological studies were continued at Bourges, the former under the learned Italian, Alciati. Melchior Wolmar not only taught him the Greek of the New Testament, but also gave him further taste of heresy. His position in the university was so prominent that he was requested, though only a student, to draw up an opinion, still extant, upon the divorce of Henry VIII., when that question was submitted to the faculty. But zeal for the truth of God had now become, as Sayous declares, the passion of his life. He cheered all of like mind, resolving their scru-

ples; even when he sought quiet, 1 became, he says, a public school. a timidity could not hide the shining of within him, and many others came to The time of indecision was past; such such lingering attachment to the find in Luther and Melanchthon, for of the recorded experience of John Ca the age of 20 he was already full-fashi reformer. The death of his father, in '30—the date is uncertain—interrupte versity course. For 2 or 3 years we l of him. From 1529 he was at least the time in Paris struggling with the r In the midst of persecutions he gave legal profession, and devoted himself The Sorbonne had just prosci tenets of Luther. The congregation c of some 300 or 400, which even Bisho net had at first favored, was disperse lence; Farel had fled; Leclerc was and burnt; Lefèvre was in Navarre persons (7 in 1528) had been burned for Calvin's sermons, usually ending with t "If God be for us, who can be against spired the timid with new zeal. To the oned he sent messages of comfort 1 The friends of reform looked to him champion. At his own expense he: lished (April, 1532) an edition of th mentia of the austere Seneca, perhap model in Latin style. At that time philological work had been edited by ful a scholar. It has been conjecture was intended to move Francis I. to but the inevitable comparison with neither flattering nor persuasive; yet did not escape the suspicion of being: inclined to favor the reform. Nex bolder venture. Nicolas Cop, a frien vin, just chosen rector of the Sorbon ered, according to the custom at th All Saints, an oration, which is have been written by Calvin, in which coursed, contrary to all precedent, doctrine of justification by faith alcamazed and indignant Sorbonne order be burnt, and Cop and Calvin were shake off the dust from their feet in flight, the latter, it is rumored, being by the wall in a basket, after the anostolic method. He was welcome rac by Queen Margaret of Navarre, of Francis I., and the refuge of the ted; her own book, the "Mirror or Soul," was in small favor at the Sorb Angoulème, with his friend Louis Calvin distributed sermons among t and began his "Institutea." The Lefèvre d'Étaples, whom he met at the court of Navarre, in 1533, for, this young man would "restore the France." Returning to Paris, at great risk, he accepted a challenge of Se discuss the positions advanced in work on the "Errors of the Tri

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ed to appear. When they at last n a more tragic encounter. In 1584 1 published at Orleans his Psychopanin which, with scriptural reasons and logic, he refuted a prevalent Anabaptist illar to one of Origen's, that the soul seep between death and the resurrec-By the over-zealous dissemination of the ned "Placards," in 1535, persecution was aroused. Calvin, desiring a quiet retreat r, went first to Strasbourg, where Bu-omed him with open arms, and thence I, where Grynæus and Wolfgang Cap-ere working for the reform. Under the he began the study of Hebrew. and German reformers were now at wgether. The reputation of Calvin as mest reformer and one of the most learned of the age had preceded him. Johannes rm spoke of him as acutissimo judicio, : doctrina, et egregia memoria prædi-- not only his acumen and learning, but urpassed systematic talents were now to unibited in that work which caused Meon to hail him as "the theologian," and a brought into one body of divinity the ts membra of the reformed opinions, scatthroughout central and western Europe. rough study of the epistles of Paul psalms of David, by a profound inward reace, by severe training in the forms of by a wide erudition and an unrivalled talent, and by such mastery of the age as was not surpassed even italian literati, he was prepared for production of a work which at once comad the attention of Europe and became a ark of the reformed faith. No man at of 25 has composed a system of phiy or theology that can be mated with it; vorks of reflection are usually the fruit riper years. The youthful aspirant mest need of change: the opinions of Caledition of 1536 and in that of 1559, base of his own revision, are unchanged, or larged only as the sapling is changed into the larged only as the sapling is changed into the larged writes: "Though prepared in larged any thing;" Scaliger: He made no retractions though he wrote the immediate occasion of the work charges circulated against the reformng them, as a body, of holding the a opinions and insurrectionary projects ch one class of the Anabaptists had bu Germany. Francis I. had lent his auvo to the stigma. "Silence would now be said Calvin. The Latin preface of the "Silence would now be of 1536, addressed to this monarch, recharges and defends the reform with and method, that it takes rank as of suc three immortal prefaces in litera-that of President De Thou to his "Hisand of Casaubon to Polybius, being some compared with it. The first edition of "Institutes" was probably published in 536, in French, and anonymously; no copy of

it is extant. The edition of 1586 was issued at Basel, in Latin; this has 6 chapters; another in 1539 has 17; improved editions appeared during Calvin's life in 1543, 1545, 1549, 1550, and 1559. Numerous editions have been since published, and translations into most of the European languages, and into Greek and even Arabic. A new impression of the edition of 1759, which is considered the most complete, was brought out by Tholuck in Berlin, 1884-'85, and a new edition of Krummacher's German translation of the same appeared in 1834. The reformation produced no other work so complete and full; Melanchthon's Loci are but a fragment in the comparison. The theology of St. Paul was here expounded for the illumination of the 16th century; the system of Augustine was revived, without its sacramental grace. In its full form, the "Institutes" is divided into 4 books, treating successively of the knowledge of God as the Creator and Sovereign of the world, of the knowledge of God as Redeemer in Christ, of participation in the grace of Christ, and the fruits thereof, and of the external media (church and sacraments) by which God unites us unto, and retains us in, the fellowship of Christ. The rational power of the work is owing to the fact that it carries one dominant idea through all parts of the system, the idea of the divine sovereignty; and this idea was taken by Calvin, not from the region of speculation, but from his deep religious feeling. If it be a work of one idea, that idea must be confessed to be the grandest of all. For the first time in Christian literature, a system of theology was elaborated in all its parts on the basis of the Divine will as supreme. That will, in Calvin's view, though hidden to us, is not arbitrary, but most wise and holy. The human race, corrupted radi-cally in the fall with Adam, has upon it the guilt and impotence of original sin; its redemption can be achieved only through an incarna-tion and a propitiation; of this redemption only electing grace can make the soul a partici-pant, and such grace once given is never lost; this election can come only from God. and it includes only a part of the race, the rest being left to perdition; election and perdition (the horribile decretum) are both predestinated in the Divine plan; that plan is a decree, and this decree is eternal and unchangeable; all that is external and apparent is but the unfolding of this eternal plan; the church, "our mother," contains only the visible signs and seals of a grace which is essentially invisible; justification is by faith alone, and faith is the gift of God. Such was the stern anatomy of the system of predestination. It went behind the whole outward order of the mediaval church, the papal supremacy, the episcopate and the priesthood, the complicated ritual, the multiplied secraments, the whole system of meritorious works and of monastic vows; it tested these by the Bible as the only rule of faith, and by the principle that grace is internal

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and immediate. The polemical astuteness and doctrinal completeness of the "Institutes" gave it an immediate fame. The reform, supposed to be sporadic, was here concentrated in living unity and vigor. Less heed was given to the comparative neglect of human freedom than to the searching exposure of the vanity of human merit. The sovereignty of God was brought to bear against the supremacy of the pope.—Rence de France, daughter of Louis XII., married to Ercole II., duke of Ferrara, imitating the example as she shared the opinions of Margaret of Navarre, invited Calvin to her court, then the refuge of many of the persecuted. Under the name of Charles d'Espeville he here enjoyed for a short time comparative repose, yet winning Madame de Soubise, Anne and Jean de Parthenay, and others, to the new opinions. The vigilant inquisition, already crushing out Italian reform, soon compelled him to retrace his steps. After tarrying a while at Aosta, he came for the last time to his native place, and arranged his family affairs. Prevented by the war in Lorraine from gaining Strasbourg by the most direct route, he came, in Aug. 1536, not with-out personal peril, to Geneva, led by a secret providence, which changed all his plans of seclusion, and transformed the nervous scholar into a bold practical reformer. He was now 27 years old. Geneva was to be at once the test and triumph of Calvin's whole system. No place in Europe presented greater difficulties, so sharp was the conflict of its parties, and so corrupt was it in morals; and no place had such advantages as a radiating centre. At this moment it was rent by factions. Delivered from the domination of the duke of Savoy, it had received the reformed opinions through the zeal of William Farel, and in Aug. 1535, established the new service. But the old parties, the Eidgenossen (confederates), and the Mameluks (Savoyards), reappeared under new forms. The city was demoralized; libertinism as to both faith and morals was popular, though the old conseil général had been revived, and had already attempted the prohibition of worldly amusements. But the strict party was in the minority, and Farel, ardent in the onset, knew himself unequal to the work of reorganization. Hearing of Calvin's presence in the city, from one who had recognized that pale visage and those keen eyes in a crowd, he besought him to remain; and when he pleaded his need of repose, and desire for study, Farel broke out in a solemn adjuration: "Since you refuse to do the work of the Lord in this church, may the Lord curse the repose you seek, and also your studies!" Calvin yielded, he says, "as if to the voice of the Eternal." At first he would only teach theology, but he preached a sermon, and crowds followed him to secure its repetition; and he was obliged to become one of the pastors. His salary must have been slight, judging from the fact that after 6 months (Feb. 13, 1537), the council voted him 6 crowns, "seeing he had not received any thing." In conjunction with Farel

and Viret, he at once proceeded to organizing the church affairs. In 1 lished a catechism in French (153) extracted from his "Institutes," "si an edifice that is to last long, the cibe instructed according to their litt "Confession of Faith," with articles-cipline annexed, had been appro-council in Nov. 1586, and was rea every Sunday. At a public dispu the Anabaptists, March 18, 1537, h to silence, so that for many years th longer heard of. At a disputation i he spoke against the real presence, authority due the fathers. A cer accused him, Farel, and Viret, Arians, because the words Trinity (on which Calvin never insisted) v the Genevese creed; but his orth amply vindicated at Lausanne and great work, however, was the regul cipline, according to the principles in his "Institutes." And here he wrathful opposition. Many of the had joined the reforming party f patriotic motives; the remaining Rome and the Anabaptists mud cause with these Libertines again which was to extend ecclesiastical all the citizens, banishment being th obstinacy. Some sumptuary regul introduced; games of chance and dances were prohibited anew-threpeatedly forbidden since 1487; the granted that cards and dancing mi cent in themselves, yet they led to quarrels." The Libertines, whom secular historians of Geneva accu injustice and corruption, gained the Feb. 3, 1538, and at once forbade the to mingle in politics. The minist fused to hold communion at Easter. of the prevailing immorality; they fused to restore certain church fest the baptismal font, and to give unlea in the supper, though a Lausanne recommended these things. Calvi sonally not opposed to these rites, be his colleagues. Thereupon, Apa council banished Calvin and Fara parted, saying, "It is better to ob-man." Zürich and Bern interced in vain; a popular assembly, May 2 the decree of the council. And Ca he "loved Geneva as his own sou to return to the life of a student from Geneva, he was welcomed at St Bucer. A church of 1,500 French put under his charge, and adopted h The city gave him the right of afterward prolonged for his life. I ent at the conference between Catholics and Protestants in Fran and in that of Worms adjourned to 1541. Here it was that Melanchtla publicly the title of "the theol

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atise on the Lord's Supper (De r a conference with the Lutherugenau, in 1540, in which he develview, intermediate between the Lu-

Zwinglian, asserting that Christ ually present and spiritually received charist. He also lectured and pubthe "Epistle to the Romans," having ome always in view; since Augustine entator had entered more fully and nto the logic of Paul's argument. f students, from all parts of France, his lectures on the "Romans," and on spel. He was scattering seed far and ere, too, in 1540, he was married to Bures, the widow of an Anabaptist, had turned from the tenets of that sect. reviously refused an alliance with a nk, fearing the disparity of position. matrimonial project enlivens some of But in Idelette he found a most nd devoted wife, "who never opa," he says, and "always aided racis honestaque famina, et lectison, who died in infancy, was the of this marriage. "God gave us," n, "a little son—he took him away." ed in 1549, and her stern, hard, overasband speaks of his solitude and grief touching letters, still extant. To Viret "Knowing, as you do, the tenderness, the weakness of my heart, I need not mly the strongest effort of mind could ny anguish or keep me from sinking." over married again; and 7 years later, of condolence, he dwells anew upon

grief.—Two years had now passed vm had been driven out of Geneva, ty had need of him. He had still conherish its welfare, advising his friends to counsels. When Cardinal Sadolet the Genevese to entice them back to dvin replied with such wisdom as praise even from his opponent. The were again restless. Disorders and

were again restless. creased. Of the 4 syndics who had Calvin's expulsion, one had been hung r, another was killed in an attempted other 2 had been driven away. As Oct. 22, 1540, the council had vainly disciplinarian to return; to another a he replied: "The Genevese would be ible to me, and I to them." The city the intervention of Bern and Basel; I Farel entreated; the city of Strasast allowed him to go, continuing his ich he refused to receive; and Calvin offering to God his slain heart as a and forcing himself to obedience." d to the city with the acclamation of 15, Sept. 13, 1541, and not only was house" provided for him, but also "a loth for a coat." He returned with d fair understanding that his discipline a carried out. His idea of the proper

purity of the visible church was

much higher than that of his contemporary German reformers; Mohler accuses him of borrowing it from the Roman Catholics. To have a reformed church was his ideal. That reform must embrace not only doctrine and ritual, but also the whole life. The most thorough expounder of original sin was the most determined opponent of all actual transgressions. strictest advocate of Divine sovereignty insisted most strenuously upon man's rigid obedience. The church was the great institution for the regederation of human society. "Man cannot enter into life unless he be born of her womb, nourished at her breast, and kept under her fos-tering care." The ministry is divinely appointed. Synods of pastors and elders are for the preservation of truth and order. The state is to aid. and not to rule, this spiritual institution, though both church and state concur in the sphere of morals. Rules of discipline conformed to these radical views were adopted by the whole peo-ple, Nov. 20, 1541. The presbyterial system was fully inaugurated, which became a model for the government of the reformed churches in other countries. The consistory had twice as many elders (12) as ministers, and these elders were annually elected by the church. The sys-The system of representation was thus established, so fruitful in the subsequent political history of Europe. The consistory met every Thursday to consider cases of discipline. A congregation assembled on each Friday for practical religious improvement. The general council elected by the people continued its functions; but it assembled only twice a year, and the real power was gradually absorbed by the lesser council and by the consistory. The latter was the real tribunal of morals, and its inquisitorial sphere extended to the whole population. It could not punish beyond excommunication; but the civil power was expected to do the rest. The system was a bold one, and for a time eminently successful. Accusations, often frivolous, increased. 1558-'9 there were 414 citations before the consistory. Severe penalties were often inflicted for slight offences; once a person was punished for laughing while John Calvin was preaching. But the effect upon the city was marvellous. became the most moral town in Europe. It was also the home of letters and the bulwark of orthodoxy. Hooker says: "The wisest that time living could not have bettered the system." Knox, who was 3 times at Geneva, 1554-'6, declared that "it was the most perfect school of Christ since the days of the apostles." And Montesquieu exhorted the Genevese to celebrate as festivals the day of Calvin's birth, and the anniversary of his arrival there. In 1541 Calvin was also appointed on a commission to codify the laws of the state; the code was adopted Jan. 10, 1548. Here, as in the church, the government was aristocratic, with severe penalties. Ancillon says that his "labors for the civil law give him a higher title to renown than his theological works." The same year he published a new and revised liturgy, which was

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made the basis of many other reformed liturgies. The public worship was ordered with extreme simplicity, all that appealed merely to the sense and imagination being excluded. Not that he was tenacious in opposition to "things indifferent;" for when consulted in 1555 about the English liturgy, then the occasion of troubles in Frankfort, though he replied that it contained ineptia, he added the adjective tolerabiles. Such power as Calvin now exercised could not be unresisted, except in a thorough despotism with a standing army. And Calvin had no money, no arms, no family influence, and he never flattered the passions. Beside, he was a foreigner, a Frenchman. The disaffected patriots raised this cry against him, and named their dogs after him. This final opposition of the Libertines, both the political and moral ones, called out all the resources of his now indomitable will. Some of the Libertines were animated by a feeling of patriotic independence; others held to the gross views of the Familists; all joined in the opposition; blood flowed. Perrin was executed in effigy, in 1555, for trying to seize the government. Gruet was decapitated as a materialist, and an enemy of the state. Berthelier, a son of him who had headed the movement for independence against the duke of Savoy, was excommunicated; he appealed from the consistory to the general council, and the council acquitted him. The trial of strength came. All the clergy remonstrated against the decision of the council. Calvin appeared before the 200, and pleaded in vain for the independence of the church. The council still demanded that Berthelier should receive the communion. On the Sabbath, after the sermon, Calvin exhorted the church to partake of the sacrament; but thundered out that "he would sooner die than offer holy things to the excommunicated." Berthelier did not dare approach the table. council postponed the final decision. The people in the streets still cried, "Slay the alien!" The contest continued for a whole year, but the party of Calvin was strengthened by the naturalization of a large number of Frenchmen, 300 at one time in 1557, and the authority of the reformer was insured. Yet it was far from being absolute even with the consistory. Though he had at one time obliged them to take off a light, and impose a heavy sentence upon Ameaux, who had libelled him, yet they often opposed his views; in one letter he complains that they even subjected his theological works to the censorship. These ecclesiastical and civil disputes were only a small part of his labors. He was also engaged in perpetual theological disputations. Bolsec, once a Roman Catholic and almoner of the duchess of Ferrara, now a convert to the reformed religion and a physician, disputed his doctrine of predes-After a sharp controversy he was tination. banished from Geneva, became again a Catholic, and wrote in 1577 a life of Calvin, filled with all manner of libels; asserting, for example, that when a young man he had been

branded for a crime against nature. futed by the Catholic historians M De May, though propagated by Ricks Spanish and Italian anti-Trinitari much trouble at Geneva. Geibaldi w ed, Gentilis was led for a time to rec lius Socinus came to Geneva even execution of Servetus, and subsequei sponded with Calvin, on the doctrine The most melancholy case was that of ish physician Servetus, burnt at Ge 1553. The party of the Libertines tric use of him to defeat Calvin's influence himself interceded in vain to have h ment changed to decapitation. His conwas the act of the council, after a lor ation, and in accordance with the opinions of other cantons. Bullinge lanchthon sanctioned the deed. The was in accordance with the laws-European states of the time. It w herited spirit of the times, and not of Calvin, that burnt Servetus. Th was cruel; it is indefensible; it we the time impolitic. But Calvin is t blamed, only as the whole legislation is to be blamed yet more severely. No nor religious liberty was yet unders less was there any sharp distinction tween them. That analysis was the time, and of the seed which Culvin sowing in Geneva. Among his other works was an "Antidote," in 1543, works was an "Antidote," in 1543, articles of faith, drawn up by the Sor other "Antidote," in 1547, to the deccouncil of Trent; a severe treatise on dom and Bondage of the Will," a Roman Catholic Pighius, which ha controversial success of convincing his After prolonged discussions, Zurich united with Geneva (1549) in a cor the Lord's Supper; the Swiss churche acceded to it in 1551. But the Luth enraged. Westphal aroused them to When Lasco's Reformed church v from England on Mary's accession, i first find no resting place in Denma many; Westphal called them "mar devil." Calvin made a fierce atta and Hesshus, and rebuked with s silence of Melanchthon. He could no stand how the Lutheran divines c their peculiar views of consubstantia sary to church fellowship.-The m tant part of Calvin's labors was in with the new academy of Geneva, i in 1559, and endowed by the li Bonnivard. Such institutions of learn up wherever the reform Geneva there were chairs of Hebrew philosophy, and theology. Beza, friend and able successor as well as of Calvin, of a generous humanistic c the first rector of the academy. theology, without a title. Six l were present at the opening of war

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of Calvin sometimes numbered 1,000. The wood sent here from ys one, was manufactured into arrows. its flocked hither from Scotland, Holland ny. From 6 to 4 in summer, and w = in winter, the classes were together, ing at the dinner hour, which was from υ 1Ī. The place became a focus for the 1 faith. Calvinism was dispersed all zurope. Charles IX. complained that "There a was the nursery of heresy. ot a single day of his life," says Sayous, which John Calvin was faithless to his ." His labors were ceaseless and pro-Every other week he preached every often on the Sabbath. His sermons were raneous, short and simple, always cowemn, and often tender. Three times a se lectured on theology. Every Thursday be pre ed in the consistory, and on Friday he was pro at at the congregation. His commenbries over the larger part of the Old Testament, and all of the New excepting Second and Third John and the Apocalypse. Scaliger says: Odnaus sapit quod in Apocalypsin non scripin philological accuracy surpassed by expositors, none have entered more thorinto the inmost thoughts nor brought e distinctly the logical coherence and maritual sense of the sacred writers. r vielded to the seductions of allegorical station. His commentaries on the Psalms ue Pentateuch, and on Paul's epistles, and ectures on Job, stand in the front rank of d interpretation. The best modern school u pullology is warmest in praise of Calvin's regetical merits. So extensive was his private correspondence, and so numerous were the inraines addressed to him from all parts of Europe, that many a night he had no time for seep, and many a day he had no time to "look up to the light of the blessed sun." Men in the mest stations in Europe coveted a letter from his hand. Two of his commentaries were dedimed to King Edward of England. Archbishop Commer advised with him as an acknowledged minister of Christ, and as the wisest counsellor on the continent upon the affairs of England. ected meeting of the reformers in Engwas interrupted by Edward's death. He to Frankfort in 1556 to compose the samong the English refugees. The theoland the polity with which John Knox revized Scotland were confirmed in the f Geneva. The counsel of Calvin was by the Moravians; to Hungary he ers of advice. King Sigismund, of was one of his correspondents, and he enlisted in the Unitarian controvo must land. But his chief influence of Switzerland was felt in France; its ooked to him for counsel and received and polity; Coligni greeted him as er of the reformation, and concerted the first Protestant attempt at misof the Huguenots at Rio Janeiro, in

1556, which was, however, broken up in 1558. The wide influence thus begun in life was perpetuated after Calvin's death. His system of doctrine and polity has shaped more minds and entered into more nations than that of any other reformer. In every land it made men strong against the attempted interference of the secular power with the rights of Christians. gave courage to the Huguenots; it shaped the theology of the Palatinate; it prepared the Dutch for the heroic defence of their national rights; it has controlled Scotland to the pres-ent hour; it formed the Puritanism of Eng-land; it has been at the basis of the New England character; and everywhere it has led the way in practical reforms. His theology assumed different types in the various countries into which it penetrated, while retaining its fundamental traits. In Switzerland it came to its culmination in the scholastic system of Turretin; but it breathes a freer spirit in the polemics of Stapfer. In France the school of Saumur advocated a general atonement. In the Palatinate, Calvinism was blended with the theology that Melanchthon had taught at Wittenberg. In Holland, the five points were sharply presented, and Supralapsarianism partially defended; but here too the Cocceian theology of the covenants found a less abstract and a more historical basis for the system of divinity. The "Westminster Confession" combined the results of a century of controversy in an exposition, fuller than any continental symbol, and to which Scotland and the Presbyterian and Congregational churches of America have in the main adhered. But in the United States the system of Edwards has enlarged and liberalized the theology of Calvin. And in all these countries the love first of religious, and then of civil freedom, has been deeply implanted in the adherents of a theology which elevates man because it exalts God.—But with all his excellences, Calvin had also his faults and excesses. That countenance, in which, as Guizot says, was express ed "that firmness which makes no account of life, and that ardor which consumes," that severe and thoughtful visage reveals to us the man. He was severe, but more so to himself than to others. His temper was often impetient; it was hard for him, he says, to control "the wild beast." He wrote vehemently, He tracked the foe in reply to ferocity. who were intent upon his destruction. esthetic perceptions were dim; duty with him was the overmastering passion. He had not much time for the private affections, which are the solace of life; for life to him was a terrible combat. Yet he loved his wife tenderly; he grasped the hand of Luther with warmth, and would not let Bullinger retort his fierce attacks; Melanchthon said to him, many a time, "that he wished he could only lay his weary head upon that faithful heart and die there." A man to whom Farel, Viret, Bucer, Bullinger, and, more than all, Theodore Bess looked up with such love, was no stranger

to the feeling of friendship. His theology was sovere, because it was conservative and logical; it emphasized the divine holiness rather than the divine love; it made an abstract decree to take the central place, which only Christ can rightfully fill; but it is still the most complete system which the 16th century produced, nor has it been supplanted by any single work. The Roman Catholic Remond terms it "the Koran, or rather the Talmud of heresy." Bossuet, D'Alembert, Mignet, Paul Lacroix, and Nisard, all confess that it puts its author among les grands écrivains, and makes him one of the "glories" of French literature. Early in 1564 his body began to sink under his multiplied cares, and a complication of disorders, that had been wearing upon him ever since his youth, asthma, fever, colic, the stone, the gout, disease of the kidneys, and the hæmorrhoids, assailed him with violence. He could hardly take any food, but still continued to dictate letters and comments on the book of Joshua. He began to preach a sermon on February 4, but was obliged to stop. On April 27, the lesser council met around his bedside to receive his parting words; the next day the ministers of the city and neighborhood listened, for the last time, to his affectionate and faithful counsel. Farel, now 80 years of age, journeyed from Neufchatel once more to grasp his hand. Prayers were offered for him in all the churches. He lingered on in intense suffering, yet in the tri-umph of faith, until May 27, at 8 o'clock in the evening, when he broathed his last. He was buried in the cemetery of Plain Palais; at his own request, no monument marked the spot, and no one in Geneva can now tell where repose the remains of the man who made that city famous. His whole earthly wealth, 225 crowns, he bequeathed to his relatives and poor foreign-ers. His salary was 250 francs, and he would not receive that portion of it which accrued during his last illness.—The works of Calvin were first collected in the Geneva edition of 1617, in 12 vols. fol. The best edition is that of Amsterdam, 1671, in 9 vols. fol. The collected works of Calvin have been published in English by the Calvin translation society of Edinburgh, in 52 vols. 8vo, completed in 1855. Ilis commentaries were published together in 1561, in 2 vols. 8vo. Tholuck edited his commentary on the New Testament, 1831-'4, Halle. The 1st Paris edition in French is now in the course of publi-His Opuscula were issued in 1562; the best edition is the Genevan of 1597. Parts of his correspondence appeared in 1576, in Beza's "Life of Calvin." Jules Bonnet is now (1858) editing a complete edition, after years of research; 2 volumes, containing nearly 800 letters, were issued at Paris in 1854, and, in English, at Edinburgh; 2 other volumes will complete the work. Beza, in 1564, wrote the life of Calvin. De May, in 1557, depicted his career from the Roman Catholic point of view. A publication directed against Bolsec's libellous work appeared at Cleves in 1622. Waterman and Dyer, 1850, have written ! in English. The most complete given in Paul Henry's Leben Jo vins, des grossen Reformators, 8 Bdu Hamburg; with a copious appendix from 544 letters, to which Dr. access. This work has been tra Dr. Stebbing, omitting the appendia 8vo, London and New York, 1854. FranceProtestante is a valuable Note Calvin, sa vie et ses ourrages, with a ! of the various editions of his works Histoire de la vie des ouvrages et des a Culrin (3d edition, Paris, 1845), has lated into English and German, and from a Roman Catholic point of view the other biographical sketches of Cal mentioned one published by Herzog in 1843, and the famous sketch of G which we have quoted, and which is in the Musée des protestants célèbre the more recent works which tend light upon Calvin and his times, m tioned, Gabriel's Histoire de l'église depuis le commencement de la réfors qu'en 1815 (Geneva, 1855).—For a of the historical relations of CAL REFORMED CHURCH.

CALVISIUS, SETHUA, a German and chronologist, born Feb. 21, 15 Leipsic, Nov. 24, 1615. He was poor musical talents earned the means the cral of the German universities, and progress in classical literature, astrough the mathematics. He opened a must Pforte, rather than accept a proformathematics, which was offered to universities. The reading of Scalifications, and he organized a systemoly, embracing the history of the vanew plan. He also wrote upon the calendar, proving its inadequacy, and a new and more accurate system.

CALVUS, CAIUS LICINIUS MACES orator and poet, a son of the annalist of the same name, born 82 B. C., 47. He left 21 orations, but few survive. One of these against Vatic counsel Cicero was, produced so p effect that the accused interrupted and exclaimed, "Judges, am I to be because my accuser is eloquent?" ranked with those of Catulius.

CALX, a term formerly in use chemists for designating the prod oxidation of a metal, when heated Subsequently it was limited to lim by calcination, and is now used in in the pharmacopoeias. Its prop described under the head of Lime.

CALYMENE (Gr. remanuppers, so named from the obscure nature of a genus of trilobites characterize faculty of rolling the body into the ball, by bringing the two extremi

ier. In some rock formations they hus coiled up in great numbers. undant both in this country and in ir range being among the lower rocks. In some of the species the the eye is beautifully preserved, t, in these earliest formed crustaceof the most remote geological pe-10 provisions were made for adaptmber to the peculiar necessities of that are now seen in the compliare of the eye of the butterfly.

O, a nymph of the island of Ogygia, lysses was shipwrecked. She fell 1 Ulysses and retained him for 7 the gods compelled her to let him journey; and the hero not having reciprocate her love, although she m immortality if he would remain ne died of grief after his departure. s a daughter of Oceanus and Tethys, or, according to Homer, of Atlas. Lat. a cup), in botany, the exterior pe, consisting of a circle of leaves s, which are commonly of green etimes, as in the anemone, when s wanting, the calyx has a brighter ore delicate texture, and forms the part of the flower.

coo, a Portuguese navigator, born nd half of the 15th, died toward g of the 16th century. He followed is of the discoveries made on the rica under the infante Don Henrique Alfonso V., and passing Cape Lopo and Cape Catharina, he introduced ke order into the chaos of geographdge about Africa, by placing on shores of the great river which is ur those capes a padrao, or pile hich henceforward served as bounn the territories explored and those n. He was the first to put himself al contact with the population of leaving a few Portuguese sailors as hind, he took some of the natives believed. This expedition, which a 1484, became of still greater serce by the astronomical observations ned Martin Behaim, who accompahen Cam left Congo, he stipulated tives to return within 15 months. h on his arrival at Lisbon he was the brilliant reception of John II. his stay in the Portuguese capital, immediately to Congo, to keep his the inhabitants; and planting a rao in lat. 13° S., he penetrated as and on making his appearance at the black king of Congo, he was seived with every demonstration of ut the king sent an ambassador, a presents to Lisbon. Previous to to Africa, this dignitary became a Phristianity, the persons in his suite example, while the African king manifested his willingness to Christianize his people, by asking for missionaries. The king of Benin made the same request, and Bemohi an African prince, received the rites of baptism at Lisbon.

CAMACHO, or Camaxo, a series of lakes in Brazil, connected with one another by natural canals. One of them is large; the others small. They are commonly named Jaguaruna, Guru-

paba, and Santa Martha.

CAMAMU, a town, island, and bay of the province of Bahia, Brazil. The town, situated on the Acarahi, a river which enters the bay, is a place of some trade in rice, timber, and rum. The island, in the bay, is also called Ilha das Pedras, or "isle of rocks."

CAMANA, a town of Peru, and capital of a province of its own name. It is situated near the mouth of the river Camana in the department of Arequipa. Pop. of the province in 1850, 14,419; of the town, about 2,000.

CAMANCHES. See COMANCHES.

CAMAPUAN, a river of Brazil, 70 miles long. It is one of the head streams of an affluent of

the Paraguay, called the Taccary or Taquari.
CAMARANCA, a river of Guinea, rises in the Kong mountains, flows 250 miles, and enters Yawry Bay, on the coast of Sierra Leone. CAMARGO, a town of Mexico. It stands on

the San Juan river, near its junction with the

Rio Grande. Pop. 2,600.

CAMARGO, MARIE ANNE, a famous dansense, born in Brussels, April 15, 1710, died in Paris, April 20, 1770. Her father, whose name was De Cuppi, was of an ancient Roman family; her mother belonged to the Spanish house of Camargo. De Cuppi made the arts of dancing and music a means of supporting his family, and brought up one of his children as a painter, another as a musician, and Marie Anne as a danseuse, in which art she was instructed by Mile. Prévost, then the great oracle of the French ballet. On appearing on the stage at the Belgian capital, she delighted the public not only by her dancing, but still more by her beauty. She made her début at the opera in Paris in 1726, and became very popular. Finally the count de Melun fell in love with her, carried her off, and kept her and her young sister Sophia under lock and key in his hotel. Her father petitioned Cardinal Fieury, and insisted that the count should make a countess of Marie Anne, and provide a dowry for Sophia, but he succeeded only in obtaining her release from the custody of her lover. her reappearance on the stage she was received with the utmost enthusiasm, and, with an interval of 6 years from 1784 to 1740, she remained attached to the opera until 1751, when she re-

tired upon a pension of 1,500 francs.

CAMARGUE, LA, the name of an island in the S. part of the department of Bouches-du-Rhône, lying between the E. and W. arms of the Rhône; area, 250 sq. m. This island, which is in the form of a delta, is alluvial, and is in part covered by marshes and lagoons, the principal being that of Valcares. The cultivated

portion is extremely fertile; game is abundant. Salt is formed naturally on the banks of the marshes, and is an important article of trade. A company is now engaged in draining the marshes.

CAMARILLA, a term of political application, implying a secret court influence, apart from the regular and publicly known agency of ministers of state and public functionaries. It is a Spanish word, meaning primarily a small room or closet, and is used as a term of reproach. Its origin is attributed to a period after the return of Ferdinand VII., but there is considerable probability that it was known in the same sense at a much carlier stage of Spanish history.

CAMARINA, a town on the S. coast of Sicily, founded by a colony from Syracuse, about 600 B. C. It was an exposed position in the Roman and Carthaginian wars, and was several times taken, retaken, and destroyed. Scarcely any vestiges of the ancient

town remain.

CAMARINES. This name is applied to the whole of the S. E. peninsula of the island of Luzon; but it designates more especially 2 of the 20 provinces of the island, known as Camarina Norte, and Camarina Sur. The name, which in Spanish signifies a small chamber, is used in Manila to signify a porch or piazza; and as the palms for the construction of this portion of the European dwellings were obtained from the peninsula, it received this name from the Spaniards. The Camarines provinces are bounded N. by the province of Tayabas; S. by the province of Albay, which forms the southern extremity of the peninsula; E. by the Pacific ocean; and W. by the great bay of Ragay. The formation of the peninsula is volcanic; the Caraballos range of mountains extends its whole length, from N. to S., and 7 of its peaks are active volcanoes. The soil of the 2 provinces possesses the same remarkable fertility which accompanies all the volcanic formations throughout the archipelago. Tobacco, sugar, coffee, cocoa, and indigo, are largely produced for exportation; but the chief occupation of the inhabitants of the Camarines is the culture of the pineapple, and the manufacture of pina cloth. The official authority, Informs sobre Pestado de lus islas Filipinas, states that about 17,000 looms are actively employed in these provinces in the manufacture of pina cloth; which varies in quality, from the most delicate fabric, worth \$1,500 for a lady's dress, to the coarser tissue, suitable for a la-borer's camisa, worth \$5. The women of the Camarines are esteemed the most skilful embroiderers in Luzon of the delicate pina. The skill of the women of these provinces is also singularly displayed in the working of gold and silver filigree. All the artificers in precious metals are women; and some articles of jewelry, especially their neck chains, are very beautiful and much sought for by strangers, European as well as Asiatic.—The agriculture of the Camarines indicates in some respects a degree of progress

beyond that of the other provinces of the The ox, and occasionally the horse, are ploughing, instead of the slow, unwieldr so generally preferred by the native East farmer. The Camarinians have also di the ancient plough, the primitive one among every semi-civilized people, form a single piece of crooked timber, with hardened by fire; and have substitute place a European style of implement, wi coulter and a mouldboard. As an evid the advanced civilization and superior and industry of the inhabitants of the inces, especially of Camarina Sur, wastate that official authorities, quoti prices of real estate in Luzon, mer quinon of land, a measure of 1,000 s oms, as worth in the Camarines, when and irrigated, from \$250 to \$700; or average \$200 per English acre. The inces have well-constructed roads; and of the rivers are traversed by sul-tanta bridges. The Naga river, which drains t Bato, Baao, Bulii, and Iryga, and dier into the bay of San Miguel, is navigable 40 miles for vessels drawing not more ft. water. The industrial development provinces has been accompanied by a increase in population; and this beir posed, with but small exception, of the race of the Philippines, which has vie readily to the influences of Christian civi The Camarines have not had their protarded, like other provinces of Luzon. troublesome presence of the wild negri-In 40 years, the population of the provide doubled. Camarina Sur, pop. 115,575,4 2,820 sq. m. Camarina Norte, pop. 28,3 area 1,094 sq. m.
CAMBACÉRÉS, JEAN JACQUES RÉG

French statesman, born at Montpellier. 1753, died in Paris, March 5, 1824. educated to the bar, in which profession an early eminence, and was made a co of the court of excise in his native pla the opening of the revolution, he took a part in politics, and was afterward sent : ber first to the legislative assembly a to the national convention. Placed on t mittee on legislation, he rendered impor vices by means of his intimate know! law, his sagacity, and his powers of gen tion. During the trial of Louis XVI on his motion that counsel were allowe king, and were also permitted to co with him freely. He voted for the con tion of that monarch, but denied the the convention to adjudge him to an 1 tional death. He was in favor of a pro reprieve, and of death only in case of a he vasion. Through the dreadful reign of which followed, he is said to have endea restrain the more arbitrary acts of the be to bring it back to strictly legislative ures; but he must have exerted his cautiously, for he suggested the re-on

prepared many of the worst laws. cued with Marat, Robespierre, and Barère. 24, 1793, he was chosen secretary to convention, and it became his duty, in the of March 26, to report the treason of niez. The next year he presented a plan a civil code, which was always a favorite ject with him, but the republicanism of principles, for some reason or other, besuspected, and he was not successful; nor s he appointed to the directory, a place he desired. He secured a seat in the of 500, however, where he renewed is in behalf of a civil code (1796), which unsequently made the basis of the code wolcon. After the movement of the 30th sirial, of the year VII. (June 18, 1799), he acnted the office of minister of justice under directory; but assisted Bonaparte in the m d'état of the 18th Brumaire, was made 2d asal and entered upon the discharge of the of this office in December. He attachmuself warmly to the interests of the at captain ever afterward, and remained instrument and friend long after many who began with him, had deserted, and wag in fact as Napoleon had the means of rarding his devotion. On the elevation of ader to the imperial dignity, he became hancellor of the empire, in which capacne had to communicate all the emperor's astres to the senate, many of them not very latable, but he did it with becoming grace. egrand cordon of the legion of honor and distinguished foreign orders fell to his lot, am 1808 he received the title of duke of rma. He presided over the discussions of civil code, assisting the committee largely his legal knowledge, his judgment, and his g previous study of the subject. Durthe campaign of Napoleon against the alowers, in 1813, he was president of the l of regency; but on the approach of the n 1814, he repaired to Blois, and from pace sent in his assent to the recall of Bourbons. For a while afterward he Bourbons. ed in retirement, until Napoleon's escape m Elba, and reassumption of power, placed. n once more in office. He acted as miner of justice, and president of the chamber Deers. At the restoration he retired again, g up his residence at Brussels, where he permanently exiled, as one of those who consented to the death of Louis XVI. In 18, however, he was pardoned and recovered his political and civil rights. He was an and able politician; popular because of wurtesy and grace and the hospitality of entertainments; but like many other leadmen of the period in which he lived, facile rinciple, and the willing instrument of the erior genius of Napoleon, in working his evil fell as his good designs. He was an accomhed jurist, but he knew also how to clothe

mes of rapacity in legal forms; and from ing been an extreme Jacobin in the revolution, he became a no less extreme aristocrat, eagerly reviving all the titles and ceremonies of the ancient régime. As a diplomatist he was distinguished, and his skill helped Napoleon in more than one emergency.

CAMBAY, a seaport town at the head of the gulf of Cambay, Baroda, Hindostan; pop. about 87,000; has a trade, gradually declining, however, in cotton, grain, ivory, and articles in blood-stone and carnelian. A great part of the town is in ruins, but it contains a fine mosque, some Hindoo temples, and a curious subterraneous Buddhic temple.—THE GULF OF CAMBAY, on the W. shore of Bombay, is 72 m. long and 82 m. wide at its entrance. It receives the waters of the Nerbudda, Dhadar, Mhye, Subbermuttee, and Bhadar rivers, and its tides are rapid and rise to a great height. The gulf is gradually becoming shallower.

CAMBAY STONES, a name given to agates, carnelians, and other stones of this nature, which are procured from Cambay, a district in India, and imported in large quantities into

Great Britain. See CARNELIAN.

CAMBERWELL, a suburb of London, and a parish, Surrey, England; pop. in 1851, 54,667. Portions of it are densely populated, but Denmark hill, Herne hill, Dulwich, and some other parts, are occupied chiefly by detached villas. It has a handsome church, several chapels of ease, a new college, &c.

CAMBIASO, LUCA, called LUCHETTO DA GENOVA, a Genoese artist, born in 1527, died in Madrid, in 1585. His best works are the "Martyrdom of St. George" and the "Rape of the Sabines." Late in life, at the invitation of Philip II., he visited Madrid, and executed a fine composition, representing the "Assemblage of the Blessed," on the ceiling of the Escurial. CAMBINI, GIUSEPPE, an Italian musical com-

poser, born in Leghorn, Feb. 18, 1746, died at Bicetre about 1832. He composed over 60 symphonies, beside innumerable concertos, oratorios, and pieces of instrumental music. Those adapted for the violin were his most successful productions.

CAMBODIA. See ANAM.

CAMBODIA RIVER, or Mekono, the largest of all the rivers in the Indo-Chinese territories, descends from the mountains of Yunnan, traverses the territory of Cambodia from north to south, and divides into a number of arms before reaching the sea, so as to form several large islands at its mouth. Its banks are low and sandy, and its extensive valley is annually inundated and fertilized by the overflowing of its waters.

CAMBOGIA, the synonyme in the pharmacoposias of Gambogia, or Gamboge, which

CAMBON, JOSEPH, a French statesman, born June 17, 1754, at Montpellier, died in Brussels, Feb. 15, 1820. Engaged in commercial pursuits, he became interested in the revolution, and on hearing of the flight of Louis XVI. he caused the republican government to be pro-

claimed in his native town. He was sent to the legislative assembly, and while supporting the cause of democracy, gave particular attention to financial matters. Most of the great measures which enabled the government to get through the revolutionary period were suggested or controlled by him; and to him the honor is due of having laid the foundation of the modern financial system of France. He promoted the confiscation of the estates of the ėmigrés in 1792, and made, after August 10, a report in which he argued that Louis XVI., having held a secret correspondence with the enemies of France, was guilty of high treason. He presided over the last sittings of the legislative assembly, and afterward took his seat as a member of the convention. Here he opposed with equal energy the partisans of monarchy and of terrorism. He accused both Dumouriez and Marat. When Louis XVI. was arraigned before the convention, he voted for his immediate death, and against the appeal to the people. He opposed the creation of the revolutionary tribunal, and insisted upon trial by jury. At the opening of the convention, he had been appointed member of the committee on finances; April 7, 1793, he entered the committee of public safety. On June 2, when the Girondists were threatened by the infuriated mob calling for their proscription, he boldly took his place among them, hoping to be able, through his popularity, to save them from violence; he then opposed to the last the decree ordering their arrest, and he seemed so much grieved by its adoption, that it was thought for a moment that he would not reappear in the assembly. He did not, however, desert his post, and continued to fulfil his duties with untiring activity. In July, 1793, he presented, in the name of the committee on public safety, the report on the general situation of affairs. next year he made another report on the administration of finances, which is considered a masterpiece of financial ability, and gives a full sketch of the plan which was afterward adopted for the regular registration of public debt. In the conflict which brought on the revolution of the 9th Thermidor, Cambon took part against Robespierre and his adherents; but though he had been instrumental in their defeat, he was charged with having been their accomplice, and a warrant was issued against him. He succeeded in baffling the search for him, and on the amnesty proclaimed by the convention on their adjournment, he retired to an estate in the vicinity of Montpellier, where he devoted himself to agriculture. In 1815 he was elected a member of the chamber of deputies. On the second return of the Bourbons, he was not included in the bill of amnesty, and repaired to Brussels, where he spent his last years in retirement.

CAMBOORIE, or Kamburi, a walled town of Siam, at the confluence of the See-sa-wat and May-mannoi rivers. It has a brick fort with 20 guns.

CAMBORNE, an English town is of Cornwall, 9½ miles N. W. from Pe 6,900 acres; pop. nearly 8,000. It built modern town, and derives its mainly from its vicinity to very pr and copper mines. It has a hands built in the later Gothic style, sever: chapels, and a free school.

CAMBRAI, or CAMBRAY, & forti France, department of Nord, on the of the Scheldt, at the head of the Quentin, 105 m. N. N. E. from Par a place of importance when Cae-ar co country, and from its old name. (its present appellation was derived. a while the seat of a small Frankis which was united by Clovis to During the middle ages it belon counts of Flanders, and came after the possession of the dukes of Buri whom it was transmitted to the hot tria. Here the famous league ag: was concluded in 1508, and a pea Francis I. and Charles V. was no 1529 by Louise of Savoy and Margi tria, known as la paix des dames. from the Spaniards by Louis XIV., i confirmed to France by the treaty of Feffelon was archbishop of Cambri ing the disastrous war for the st Spain devoted himself to the prote people of his diocese. In 1793 th vainly besieged by the Austrians. birthplace of Dumouriez and Marsh It has been long celebrated for its I of fine linens and lawns, whence all rics are called in England cambrics. are still the most important branch try. It also produces thread, cot various kinds, soap, and beet sugar. cipal public buildings are the cathe is modern, the old one having bee during the revolution, the city he theatre. A monument was erecthonor of Fénélon. Cambrai has a college, a diocesan seminary, a li 80,000 volumes, and several other charitable institutions. Pop. in 185

CAMBRIA, the Latin name for Wing the land of the Cymri, as the themselves in their native tongue.

CAMBRIAN SYSTEM, the lowgroup of fossiliferous rocks, lying the silurian. The Potsdam sandstcountry is included in it by Lye sandstones and conglomerates of Laare referred by Logan to the sampossibly to one still older.

CAMBRIC, originally a very fin linen, named from Cambrai, where i made. The name afterward ca plied to cotton fabrics of various

CAMBRIDGE, a city of Middle-ca a suburb of Boston, lying W. of the separated from it by the riv C is nearly a mile in width. It v nder the name of Newtown, by Gov. p, Deputy Gov. Dudley, and other it men, who designed to make it the rn in Massachusetts colony. The antion for governor was for several years er an oak tree on the common. The . Hooker and the Rev. Mr. Stone, grad-lambridge university, England, were the ed ministers of the place, both of whom ntly accompanied the Connecticut set-

journey through the wilderness, ou Hartford. Mr. Hooker was settled , and soon had for parishioners the men of the colony, most of whom had d at Cambridge. In 1636 the genrt appropriated £400 for the establisha public school at Newtown, which was further endowed by the Rev. John , minister of Charlestown. In honor ace where the chief men of the colony ived their education, the name of the as changed to Cambridge, and the as styled Harvard college. It is the id most richly endowed institution for instruction in America. The college s occupy about 14 acres of ground, s laid out with much taste and care, its fine shade trees presents a charmearance. (See HARVARD COLLEGE.) ridge was incorporated as a city in d is divided into 3 distinct portions, less compactly settled: Old Cam-he seat of the college and the res-f literary, scientific, and wealthy men; geport, and East Cambridge, the busi-tions of the city. Two bridges connect loston, and one with Charlestown. The nd Lowell railroad and the Fitchburg pass through East Cambridge. A horse with several branches, and several omies, furnish accommodations for travel The city is pretty regularly laid oad streets and avenues, and has many lic buildings and private residences. the college buildings are ancient, othodern construction, elegant and ornate, irably adapted for the purposes design-ny of the private residences are surwith highly cultivated grounds, lawns, ardens, and orchards. Many structures refore the revolution are still standing, thers the house used by Washington head-quarters, now inhabited by Mr. The streets and college grounds med with noble trees; conspicuous them the Washington elm, beneath the commander-in-chief assumed the d of the American army in 1775. probably of the native forest growth, ill vigorous. The public schools are of order—primary, grammar, and high in the last-named the languages preto a collegiate course are taught. At geport and East Cambridge a large of business is transacted. There are 5 rith a capital of \$550,000; also 2 savings

banks, with deposits amounting to \$250,000. East Cambridge was formerly known as Lechmere's Point. Here the court house and gaol are situated; also, the extensive glass works of the N. E. glass co., on whose premises is to be seen the tallest chimney in New England, 240 feet in height. A great variety of manufactures are carried on. The value of articles produced in 1855 was about \$11,000,000; 60,000 tons of ice, valued at \$80,000, are exported from Fresh pond per annum; 8,154,000 lbs. of soap, valued at about \$600,000; 484,000 lbs. of tallow candles, valued at \$100,000; \$200,000 worth of brushes were manufactured in 1855; also, large values of bricks, tinware, confectionery, fireworks, wood-turning, and cabinet work. Many of the inhabitants find employment in Boston. The university printing office is the oldest printing establishment in America. It was started in 1689 by a Mr. Glover, who gave it to the college. A gentleman at Amsterdam gave the first font of type, 49 lbs. weight. The first thing printed was the "Freeman's Oath;" the next, an almanac for New England, calculated by William Pierce, a mariner; the next, a metrical version of the Psalms. The office is now noted for its superior style of typographical execution.—The cemetery of Mount Auburn is situated in Cambridge and Watertown. It includes about 100 acres of land, covered with a vigorous growth of forest trees. The tract is undulating, with bold eminences and beautiful dells. The highest eminence is 125 feet above the tide in the river Charles, which winds along at a short distance from its base. A round tower of hammered granite, with a look-out 70 feet from the ground, has been erected upon its summit. The grounds are laid out with curved avenues adapted to the inequalities of the surface. The walks are smoothly gravelled and bordered with ornamental shrubs and flowers. The burial lots contain about 800 sq. feet each, and on many of them are monuments of rare workmanship and elaborate design. The entrance is through a gateway of granite, in the Egyptian style of architecture. Among the monuments is one to Spurzheim, the phrenologist, erected through the munificence of citizens of Boston. It is of Italian marble, and after the design of Scipio's tomb at Rome. The cemetery was dedicated in 1831. The observatory connected with the university is on an eminence nearly a mile W. of the college grounds. The population of the town in 1790 was 2,115; 1800, 2,453; 1810, 2,323; 1820, 3,295; 1830, 6,072; 1840, 8,409; 1850, 15,-215; 1855, 20,473.

CAMBRIDGE, the county town of Cambridge in the county to conty the count

CAMBRIDGE, the county town of Cambridgeshire, in England, 57½ miles from London by rail; pop. in 1861, 27,815. The town is in the centre of an agricultural district, and is remarkable for its excellent market. The buildings consist of the guildhall, a handsome modern structure, several churches, including St. Sepulchre, a round church, built in imitation of the church of the Holy Sepulchre at Jerusa-

lem, and consecrated in 1101, Addenbrooke's hospital, and several other handsome edifices. A school of art was established here in Aug. The town is on the river Cam, the ancient Granta, and was the site of a Roman station. King John gave Cambridge a guild, and the privilege of being governed by a provost of its own choosing, an office for which Henry III. substituted a mayor and 4 bailiffs. Cromwell thrice represented Cambridge in parliament. The borough of Cambridge is governed by 10 aldermen and 80 councillors, one of whom is mayor, and returns 2 members to the house of commons. There are places of worship for Wesleyans and Primitive Methodists, for Baptists and Independents, a grammarschool founded in 1615 for 100 scholars, and various charitable, educational, and literary institutions, among which there is an industrial school, a mechanics' institute, and the Philo Cambridge derives its chief glory from being the seat of the celebrated university of that name.

CAMBRIDGE, University of, an English seat of learning, of very ancient origin. first authentic charter is said to be dated 15th Henry III. (1230), and even long before that time Cambridge is believed to have enjoyed a repu-The present university tation for learning. statutes were given by Elizabeth in the 12th year of her reign. They are the foundation on which all new laws are framed. The university consists of the following 17 colleges: St. Peter's, founded 1257; Clare Hall, 1326; Pembroke, 1347; Gonville and Caius, 1348; Trinity Hall, 1350; Corpus Christi, 1352; King's, 1441; Queen's, 1448, re-founded 1465; St. Catharine's Hall, 1476; Jesus, 1496; Christ's, 1505; St. John's, 1511; Magdalene, 1519; Trinity, the wealthiest college of them all, 1546; Emmanuel, 1584; Sidney Sussex, 1598; Downing, 1800. Each college is a corporate body, bound by its own statutes, but is likewise subject to the general laws of the university. Each of the 17 colleges furnishes members both for the legislative and executive branches of the government of the university. The former branch consists of a senate, which is divided into 2 houses—the regents' and the non-regents' house—and of the council of the senate, by which every university grace must be sanctioned before it can be brought before the senate. No degree is ever conferred without a grace for that purpose. The council consists of the chancellor, the vice-chancellors, 4 heads of colleges, 4 professors of the university, and 8 other members of the senate. The executive officers of the university are: a chancellor, a high steward, a vice-chancellor, a commissary, a public orator, the assessor, 2 proctors, a librarian, a registrar, 2 scrutators, 2 moderators, 2 pro-proctors, and various other officers. The university sends 2 members to the house of commons, which are chosen by the collective body of the senate. The present members (elected April, 1857) are Mr. L. T. Wigram and the Rt.

Hon. Spencer II. Walpole. The 1 bers of the university senate for 100 under-graduates or students, 1,5 total number of members inscribed or boards of the university, 7,516. of study pursued at Cambridge ma from the following list of profess the Lady Margaret's professor of regius professors of divinity, civil Hebrew and Greek; 2 professor one of whom is appointed by the k the Lucasian professor of mathe fessors of moral theology or casu istry, astronomy, and experimental anatomy; modern history; botan astronomy and geometry; the N fessor of divinity; natural and philosophy; the Downing profelaws of England and of medicine sors of mineralogy, political ec music; and the Disney professor ology, founded in 1851 by Mr. J Beside these regular professorship various endowed lectureships. mathematical studies was establish a board of classical studies in 1854; of medical studies in the same yea enues of the separate colleges are l derived from endowments and fee of the university are small, and h £5,500 a year. The professors ar the university funds, or by the go from estates left for that purpose granted to them by the governmen in 1856 and the same amount in caution money to be deposited pr the admission to the university is blemen, £25 for fellow-commone pensioners, and £10 for sizars. Th tion fees are respectively £16, £ and £15s. There are various deg ment for tuition, according to and condition of the members, differing in the several colleges. unavoidable average expenses of graduate or student, are stated by bridge Almanac" of 1858 to be or \$300. The terms of the un 3, viz.: Michaelmas, or October, 10, and ends Dec. 16; Lent, begins January 13, and ends on before Palm-Sunday; Easter, or begins on the 11th day (the se'nnight) after Easter day, and Friday after commencement day. ment day is always the 1st Tue-da The degrees are conferred as follow of arts (B. A.) after 12 terms, 10 of be in residence. Privy councillors. royalty, bishops, noblemen and the onets, and knights, are admissible at Master of arts (M. A.), 8 years at bachelor's degree; bachelor in divi-must be M. A. of 7 years' standin admitted of any college when up years old, are permitted to take the

10 years (of which the last 2 years residence) without having previousi any other degree, and are called men;" doctor in divinity (D. D.), b. D. of 5, or M. A. of 12 years' bachelor in the civil law (B. C. L.), of 6 years' standing complete, and the greater part of 9 several terms; he civil law and doctor in physic (D. 1. D.), must both be B. C. L. of 5, or years' standing; bachelor in physic. A. or M. B. of some terms' standaving been admitted M. B.; bachelor dus. B.), must enter his name in some compose and perform an exercise doctor in music (Mus. D.), gener-. B., and his exercise is the same. aations take place in the Lent term ir, are conducted by the moderators miners appointed by the senate, and of study preparatory to the degree omprises the principal branches of The 1st university or "previous" n (technically called the "little go"), in the Lent term of the 2d year from ch the student commences his academice, the subjects of examination being Gospels, or the Acts of the Apostles, ginal Greek, "Paley's Evidences of y," and one of the Greek and of the sics. The examination of bachelors ends over 22 days; that of candidates natical honors, technically called the cal tripos, lasts 8, and that in classiig or classical tripos, 5 days. Exin moral and natural sciences nces and natural sciences tripos), have en in operation, since 1857. At the e examination, a select number, 30 at ecommended to the approbation of rs, and their names are classed in 3 viz.: wrangler, senior optimes, and nes, the highest of all being the senior or the year. The candidates are then their degrees by the vice-chancellor, have taken the oath of allegiance nacy, and of observing the statutes of sity, and having also declared that ona file members of the church of A great number of exhibitions and is are among the rewards which merilents receive from alma mater. Since f Newton, one of the great lights of , this university has been considered cularly the chosen seat of mathemate, but the tendency to make it a of learning in all the various f science, has been increasing of late questions have been lately raised as de of education, both at Cambridge l, and the subject has been a matter iscussion in parliament. Among the en who have studied at Cambridge, on and Newton, are Coke, Donne, Dryden, Middleton, and Lord Byron. e famous teachers were Archbishop

Whitgift, Bishop Wilkins, Isaac Barrow, and Richard Bentley. Many of the principal buildings and offices of the various colleges are of remarkable beauty and splendor, and above all, the Gothic chapel of King's college. The public buildings of the university consist of the senate house, the university library, the schools, the university or Pitt press, the observatory, the botanic garden, the anatomical, geological, and mineralogical museums, and the celebrated Fitzwilliam museum, for the establishment of which Lord Fitzwilliam bequeathed to the university the annual interest of £100,000 South sea annuities, and which contains a collection of books, paintings, and engravings. The university library has greatly increased, mainly through the munificence of George I. and II., and the number of printed volumes is now (1858) about 200,000. There are also about 3,000 manuscripts, which contain many remarkable works. The library of Trinity college contains nearly 43,000 volumes, including MSS. in the handwriting of Milton, Newton's copy of his Principia, Dr. Gale's Arabic manuscripts; it has received a recent addition of 4,800 volumes by a bequest of Archdeacon Hare, which is especially rich in German literature. The library of Corpus Christi college, St. John's college library, and the Pepysian library (so called after Samuel Pepys), also contain many ancient manuscripts and curious books. Beside the various reand curious books. sources of learning in the colleges, libraries, etc., there are 8 learned associations, viz.: a philosophical, an antiquarian, and an architectural society.

CAMBRIDGE, Adolphus Frederic, duke of, born Feb. 25, 1774, in London, died July 8, 1850. He was the youngest son of George III., and the uncle of Queen Victoria. He entered the British army as ensign when 16 years of age, and completed his education at the German university of Göttingen. He returned to England in 1793. He leaned at first to the side of the opposition on the question of the French war, but afterward sided with the government. He took part in the campaign in the Netherlands (1793), and fell into the hands of the French at the battle of Hondschoote, but was soon afterward exchanged. In 1801-'8 he was employed in Hanover, vainly endeavoring to preserve it from occupation by foreign powers. In 1816 he was again sent to Hanover by the British prince regent, in the capacity of governor-general, and in 1831 was appointed viceroy of Hanover. In 1837, on the separation of Hanover from the British crown, he returned to England again. From that period until his death he was best known to the public as the president of charitable societies, and the chairman at the anniversary dinners of public associations.—Cambridge, George William Frederic Charles, duke of, a British general, son of the preceding, and cousin of Queen Victoria, born in Hanover, March 26, 1819. He became colonel in the army in 1837, and major-general in 1845. In 1850 he succeeded his father as

duke of Cambridge, in 1854 was advanced to the rank of lieutenant-general, and in 1856 to that of general. He commanded the 2 brigades of Highlanders and guards which formed the first division of the army sent to the Crimea. He led these troops into action at the battle of Alma, and at Inkerman had a horse shot under him. Directed by his physician to withdraw for a time from camp life, he retired first to Pera, and soon after to England. On the resignation of Viscount Hardinge in July, 1856, he was appointed commander-in-chief of the British army.

CAMERIDGESHIRE, one of the agricultural counties of England; area, 893 sq. m.; pop. in 1851, 185,405. The general aspect of the county is flat; in fact, it has been redeemed for agricultural purposes, and forms part of the great Bedford level. The rivers are the Ouse, the Neu, the Lark, and the Cam, all small, but rendered useful for inland navigation. The county is traversed by several railways and main roads, but the internal traffic is inconsiderable. The history of Cambridgeshire is inconsiderable. The history of Cambridgeshire is inconsiderable. The history of the resistance offered by the Saxons in the isle of Ely to the Normans. They succeeded for a considerable time in maintaining their independence, notwithstanding the force which William in person brought against them. In the civil wars Cambridgeshire was generally favorable to the parliament, while the university supported the cause of the king.

cause of the king.

CAMBRONNE, Pierre Jacques Étienne, baron, a French general, born Dec. 26, 1770, at St. Sébastien, near Nantes, died in the latter city, Jan. 8, 1842. He served in the Vendée under Hoche, then in Switzerland under Masséna, entered the inperial guard, and was renowned for intrepidity. When the emperor was sent to Elba, Cambronne went with him, and during the Hundred Days he received the rank of lieutenant-general, and a seat in the senate. At Waterloo he was in command of the imperial guard; and when the day was lost, being surrounded by his enemies and summoned to surrender, he refused, and fell covered with wounds. He was taken from among the dead, nearly dead himself, carried to Brussela, and afterward to London; but having been charged in France as guilty of an attack on his own country, he gave himself up as a prisoner and demanded a trial. He was tried and honorably discharged. After the revolution of July, 1830, although almost disabled by age and wounds, he was reinstated among the staff officers of the army.

CAMBYSES, the second Persian king, succeeded his father Cyrus 529 B. C., died 522 B. C. He is the Ahasuerus of Scripture, who is mentioned (Ezra iv. 6-22) as prohibiting the Jews from rebuilding their temple. In 525 B. C. he conquered Egypt, and took Psammenitus, its king, captive. He then desired to attack Carthage; but the Phenician fleet, which formed the bulk of his navy, refused to molest

their own colony. An army sent to session of the temple of Jupiter Amia ished in the sand, and another army, Cambyses himself against the Ethiopia reduced by hunger and disease. Thes ters exasperated Cambyses. He put his Smerdis to death, killed one of his si-te was (contrary to Persian law) also his w cause she mourned for Smerdis, and tres Egyptians with great cruelty. He gave for the destruction of many Egyptian monuments, and slew the god Apis. creed the death of Crossus, the ex-mon Lydia, attended at the place of executi burst into tears. The officers suspende operations. Cambyses advanced and Crossus, but ordered the instant execution officers for disobedience. These and other tricities caused an insurrection among his who espoused the cause of a pretended S Cambyses set out against the pretend died from a wound accidentally inflicted own sword.

CAMDEN, the name of counties in of the United States. I. A south-western ty of New Jersey, separated from Penns by the Delaware river, and comprising of about 220 sq. m. The surface is gelevel, the soil of the E. part sandy, and the W. a rich loam, yielding quantities and vegetables for the Philadelphia m The productions in 1850 were 259,684 but Indian corn, 307,869 of Irish potatoes, 65 sweet potatoes, 12,946 tons of hay, and 1 lbs. of wool. There were 2 foundaries, motive manufactory, 5 glass works, 11 flou 1 paper mill, and 28 saw mills, 35 char newspaper offices, and 8,639 pupils a public schools. Most of the manufactur tablishments are in the E. part of the c The Cainden and Amboy and Camden a lantic railroads traverse it. Formed from cester co., in 1844. Capital, Camden. 1 1855, 29,160. II. A north-eastern cot North Carolina, bounded N. by Virginia. S. W. by Albemarle sound and Pasq river, and having an area of about i m., part of which is occupied by the Swamp. It has a level surface and a soil, well adapted to Indian corn, of wl 1850 it produced 363,000 bushels, beside of sweet potatoes, and 4,880 of wheat. were 5 shingle mills, 1 corn and flour churches, and 1,350 pupils attending schools. Valuable forests of cedar and exist, and the exportation of the lumb other products is facilitated by the Swamp canal, 22 miles long. Value of 1857, \$573,738. Capital, Camden C Formed in 1777, and named in honor earl of Camden, who defended the An colonies in the British parliament. I 1850, 6,049, of whom 2,187 were slave A south-eastern county of Georgia, bot on Florida and the Atlantic ocean, bour by St. Mary's river, intersected by the

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an area of 1,125 sq. m. It in-perland island in the Atlantic, 18 l or 8 miles wide, and separated unland by a narrow channel. The evel and the soil sandy. The pro-1850 were 6,400,940 lbs. of rice (the ntity produced by any county of coept Chatham), 52,328 bushels of oes, 63,478 of Indian corn, and 45 f sugar. There were 8 turpentine corn mills, 1 saw mill, 10 churches, ils attending schools and academies. d estate in 1856, \$873,592. Capi-. Pop. in 1855, not returned; in of whom 4.246 were slaves. IV. of whom 4,246 were slaves. unty of Missouri, drained by Osage other rivers, and having an area of sq. m., with an undulating surface ably fertile soil. Lead mines are

Osage river, which is navigable at time every year. The producio were 256,054 bushels of Indian of wheat, 45,176 of oats, and 219 There were 5 corn mills and 6

Capital, Erie. Pop. in 1856, 3,287, 3 were slaves.

I. A city, port of delivery, and a, of Camden co., N. J.; pop. in

a, of Camden co., N. J.; pop. in; in 1855, about 15,000. It is built at the left bank of Delaware river, opposite the city of Philadelphia, it is connected by 5 ferries, and its which has greatly aided the growth

on. The streets are regular, and nother at right angles. There are another at right angles. uildings; the principal public ediurt house and gaol, 2 railway depots, thes. There are 2 literary associaance company, iron founderies, ship ical and glass works, and a number arious kinds. The city was charternd is divided into 8 wards, governed and common council. Railroads and common council. Railroads ith New York, Trenton, Woodbury, m Beach. II. The capital of Kert, S. C., 112 m. from Charleston, is a fertile and productive region, on t of the Wateree river, which is this point by steamboats, and is bridge near the town; pop. 2,000. flourishing commercial place, cotentine being the staples of export; cates by railroad with Charleston. B academies and several grammarinks, 4 churches, an orphan society, odge, and various other societies.

d 2 battles—one fought in Aug., Gates and Cornwallis; the other ol, between Greene and Rawdon. to Baron De Kalb was erected in ich Lafayette laid the corner stone. mounds exist on the side of the The capital of Wilcox co., Ala., a flourishing post village, the active trade, and the most poputhe county. It stands on a healthy

eminence about 4 m. from Alabama river, and contains a respectable academy and 2 female seminaries. On several maps of the state it has been erroneously named Barboursville. IV. The capital of Washita co., Ark.; pop. in 1855, 1,400. It stands on a declivity of a range of hills, on the right bank of the Washita river, and at the head of navigation for large steamers. It is a handsome place, built in a very tasteful style, and possessing great advantages for trade. A plank road, to connect it with Fulton on Red river, is now in process of erection. It was formerly a rendezvous for hunters, known as *Ecore à Fabre*. It was settled in 1842, on the site of a dense forest, parts of which are still standing. The growth of the town has been very rapid, and it still continues to increase in size, population, and importance.

CAMDEN, a south-eastern county of New South Wales, bordering on the Pacific, and covering an area of 1,400,320 acres. It has an uneven surface, beautifully diversified by hills, valleys, and picturesque lakes. It is well watered by small branches of the Cowpasture, Wingecarabee, Shoalhaven, and other rivers, has many fertile tracts, and embraces a variety of fine scenery. One of the richest parts of the county is a district known as the "Cowpastures," so called from large herds of cattle found there, which sprang from a few animals escaped from the settlements soon after the foundation of the colony. Capital, Berrima. Pop. 8,323.

colony. Capital, Berrima. Pop. 8,328. CAMDEN, CHARLES PRATT, earl, an English judge and statesman, born in Devonshire in 1714, died April 18, 1794. He was educated at Eton and Cambridge; was called to the bar in 1738, where after passing a long period without practice, his rise was at length sudden and rapid. In 1752, upon the prosecution of a printer for a libel upon the house of commons, Pratt maintained, in opposition to the ruling of the judge, the doctrine of the right of juries to decide upon the nature and intention of alleged libels. His position upon this occasion was the commencement of a contest which continued for 40 years, and it is mainly owing to his exertions that this doctrine finally became recognized as the law of England. In 1757 he was made attorney-general and knighted under Lord Chatham. In his place in parliament he conducted the law business of the crown satisfactorily but without display, and as the prosecuting officer he took the opportunity to proceed, before juries, upon his former construction of the law of libel. He also conducted with great propriety and moderation the trial of Lord Ferriers for murder before the house of lords. In consequence of the change of policy which took place on the accession of George III., Pratt was re-moved in 1762 to the chief justiceship of the court of common pleas, and accepted the appointment as a lasting retirement from public life. But the arrest of Mr. Wilkes, April 80, 1768, under a general warrant from the secretary of state and other similar cases, brought

the important political and legal questions concerning the legality of such warrants before that court, and in his judgments against them he was called upon to take a position in defence of the liberties of the subject. The principles which he then laid down were not only applied to check abuses at the time, but have ever since been considered of the first importance. In consequence of the great popularity thus obtained, he was raised to the peerage, July 17, 1765, under the name of Baron Camden. He distinguished himself at once by his exertions in behalf of the American colonies, and on the formation of Lord Chatham's 2d administration he was made lord chancellor, July 30, 1766. He held this office for 31 years, discharging his duties as a judge with universal approbation, but occupying, as a minister, a precarious and doubtful position in relation to the American policy of the cabinet. However, upon the resignation of Lord Chatham he hastened to free himself from complicity with their measures, and was removed from his place Jan. 17, 1770. From this time until the close of the American war he continued in opposition to the government of Lord North, both upon its domestic and foreign policy, the treatment of Wilkes and of the colonies; and distinguished himself by the memorable eloquence with which he contended in parliament for the just demands of the Americans and the pacification of the empire. Soon after the trial of Woodfall, the printer of Junius's letters, in 1770, before Lord Mansfield, he was engaged in a personal controversy with the latter, in relation to the charge to the jury upon that occasion, upon the old question of the law of libel, in which he obtained a decided superiority. After the resignation of Lord North's ministry in 1782, he was made president of the council, but resigned the next year on the accession of the "Coalition Ministry," and enlisted under the banner of the younger Pitt. The success of this minister led to Camden's restoration to the same office which he peacefully filled for 9 years. He was created Earl Camden and Viscount Bayham of Bayham abbey, Sussex co., May 13, 1786; and still took a considerable share in the business of the house of lords, notwithstanding his advanced age. In 1792, a short time before his death, he had the satisfaction of pressing the passage of Mr. Fox's declaratory libel bill through the house of lords, against all the ingenuity of Lord Thurlow, who had procured a unanimous opinion of the 12 judges against it. He had contended for its principles throughout his life, and its final success was mainly attributable to his courage and vigor.

CAMDEN, WILLIAM, a British historian and antiquary, born in London, May 2, 1551, died at Chiselhurst, in Kent, Nov. 9, 1623. In 1571 he quitted the university of Oxford, having previously been educated at Christ's hospital and St. Paul's school, and, prosecuting his studies in London, he was appointed in 1575 second master of Westminster school. During this pe-

riod he composed his celebrated work. in elegant Latin, entitled Britannia, wh published in 1586. An English transla Dr. Holland, appeared in 1610, and a la tion in 1637, and new translations by I Gibson, afterward bishop of London, is and afterward by Mr. Gough, the emin pographer. In these editions large at and changes were introduced, so that the in its English dress little resembles th inal. In 1592 he became head ma-Westminster school, and in 1597 was Clarencieux king at arms. His next grea was the "Annals of the Reign of Quee abeth," also written in Latin; the fir-t this was published in 1615, and though completed within the next 2 years, he mined that the 2d volume should not until after his death. He commenced tory of the reign of James I., which her live to complete. He wrote many other among which was a Greek gramma lished in 1597, and used at Westmin-ter He was interred in Westminster abbey, a monument with his half-length state left hand resting on "Britannia," still re The Camden professorship of history at derives its name from Mr. Camden, who d the greater part of his estate to its found

CAMEL (camelus), a genus of rumina mals, without horns. The name of the mal is nearly the same in the language civilized nations, from the Hebrew, Aral Greek, down to the modern tongues at the present day. It appears to have nearly, if not absolutely, the first anim was reduced to the service of man, or it that claim with the only other creature can compare with it in patient endurfatigue and privation, the much slander cruelly abused ass; both having long pr the horse in their services to the huma Unlike the ass, however, which still exi wild state in the central regions of Asia south as to the northern limits of Incamel cannot be assigned to any land, I or climate, in which it has ever, certain isted in a wild condition. Diodorus and indeed, mention it as being found wild interior of Arabia; while Desmouling w left some valuable contributions on this: asserts that it so existed as lately as in the of Hadrian. It is said also, by the nat Central Africa, that camels are there to b wild, in regions never trod by a Et foot; while statements of the same current among the Tartars and Buc relation to Central Asia. In all the however, there is much reason to belie where they do exist in a state of nature time, or did so exist formerly, they s the wild horses of America, descendants mals which, once domesticated, have b cidentally or purposely liberated by the ers; and in some cases the Calmucks are to be still in the habit of lib

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kinds, from religious scruples. ver which the camel is now the listributed, are Arabia, Persia, Tartary, some parts of India, ypt to Mauritania, and from the to the river Senegal. It is nu-Canary islands, but is found in the vicinity of Pisa, in Italy, plains and stunted bushes of San ome resemblance to the desert ca. It is doubtful at what peom, the camel was first introany; but there is no doubt that it is in rapid progress of detehin the last few years, the camel luced into the southern parts of es of America, as a government its employment in strategetical or the conveyance of supplies, ir, provisions, and stores, to the great salt desert, and the other roducing no forage but stunted other acrid and bitter herbs, on ind oxen cannot be supported,

wingly supplied with water.
od to be at present in process
out, in Texas, where they have
jected to the severest tests, by
leavily loaded, and depending on

and water found by the way, eys in progress in that arid reesult is reported as satisfactory expectation.—That the camel ed from the earliest times, is ubt by the continual mention n the very earliest books of it is related of Abram, when into Egypt to sojourn there nine, that among the wealth ired were "sheep, and oxen, and men-servants, and maidie-asses, and camels;" whereas named until 3 generations later, ne of the stewardship of Joseph, sables which he received in ex-, horses are, for the first time in The use to which the rated. lied, even at that early period, commercial intercommunication al, is clearly shown in the story elf, long before the days of his hose brothers, after they had pit that was in the wilderness, eyes, and looked, and behold, a maelites came from Gilead with earing spicery, and balm, and carry it down to Egypt." And i hundreds of years, he has conployed, and so, doubtless, will until steam and railways shall all lands, and brought animal into neglect and disuse.-Zo-

camel is divided into 2 species: el (camelus Bactrianus), which ad is the camel proper; and the

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Arabian, or one-humped camel (camelus Arabicus), sometimes improperly called the dromedary. Improperly, because the word dromedary is merely a Greek term applied to one particular variety of the Arabian camel, and that probably an accidental one, in consequence of its extraordinary speed; dromedary in Greek being equivalent to courser in English, which quality no more belongs to all Arabian camels than it does to all thoroughbred horses. Camels have 84 teeth: 16 in the upper jaw, namely, 2 incisors (for the camels and llamas have these, and form the exceptions, the other ruminants being without any incisors in the upper jaw), 2 canines, 12 molars; 18 in the lower jaw, namely, 6 incisors, 2 canines, and 10 molars. The incisors of the upper jaw bear a close resemblance to canine teeth, for they are conical, compressed at the sides, pointed, and somewhat curved or hooked. There is another difference between the camels and the other ruminants: the former have the scaphoid and cuboid bones of the tarsus separated. Instead of the great horny case or shoe which envelopes all the lower part of each toe, and determines the figure of the ordinary cloven hoof, the camels have only a small one, or rather the rudiments of one, adhering to the last joint of the toe, and symmetrical in form like the hoofs of the pachydermata. These and other peculiarities of form lead to the opinion that the camels and llamss form the link between the ruminantia and pachydermata. The limits of this work will not permit a close investiga-tion of the anatomical and structural peculiarities of this curious and interesting animal; bus that charming writer on zoology, Mr. William J. Broderip, has so agreeably combined an account of the most remarkable particulars, natural and historical, of the "ship of the desert," as he is poetically called by the natives of his arid wilds. to whom he is the one indispensable possession, more so than the reindeer is to the inhabitants of the far and frozen north, that no apology is needed for extracting some of his accounts and facts, slightly abridged, nor-those completed —for alluding, shortly, to a report to the depart-ment by a gallant officer, Major Wayne, in relation to the naturalization of the animal in the United States. It may be observed here that the camel is one of the animals set forth in the forbidden list in Leviticus, because he "cheweth the cud, but divideth not the hoof;" the object of which mysterious dispensation, no writer, physiological, zoological, or other, has hitherto, it is believed, been able even to divine. "Viewed with the eye," says the able-naturalist alluded to above, "of even a comparatively careless observer, the camel presents one of the most complete instances of design with relation to human wants. There is not a part of its structure, from the bony framework of its skeleton to the external hair of its cost, that could be omitted without injury to the wonderful work, or improved. Those very parts which seem deformities are absolutely necessary to its well-being and destination, and the hump and callosities become

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beauties, when examined with reference to the exigencies of the animal, and its condition as the slave of man. And here arises the question whether this hump and these callosities are natural formations, or due to the pressure of the loads with which the animal has for ages been burdened, and to the weight of the body. The callosities are 7 in number, and upon these the pressure of the body is thrown when the animal kneels and rises up. They have been observed upon a newly born camel; but no child is born with corns upon the toes and feet, whatever fashion and tight shoes may have done for the parent; at least I never heard of a baby who came into the world with those excruciating appendages. Not that it may not be admitted, that in a long course of years those marks of servitude, as they have been called, may have been more largely developed. Dr. Walter Adam, in his paper on the osteology of the Bactrian camel, remarks that the dorsal vertebræ of the animal on which he made his observations had been modified by the pressure of its loads. We know that, by careful breeding, the horns of the ox and the sheep may be made to assume almost every grade of excess or defect, until they vanish altogether, and a hornless race is obtained. Now, whether we look at the grotesque figure of the camel or investigate its internal structure, we find the most unmistakable evidence of adaptation to that state of life to which it has pleased the great author of its being to call it. Born for the desert, the callosities prevent the skin from cracking at those points where the weight of the animal rests upon the arid burning sands. The strong, nipper-like upper incisor teeth are fit instruments for cutting through the tough plants and shrubs, that spring here and there on those boundless wastes. The nostrils are so organized that the animal can effectually close them, and defy the stormy, destructive sand-drifts that sweep harmlessly by him. The 'desert ship' seems to float rather than step on the elastic, pad-like cushions of its spreading feet, moving as noiselessly as Mr. Marks's vulcanized Indian rubber wheel tires convey a carriage over a granite pavement. 'What always struck me as something extremely romantic and mysterious,' writes Mr. McFarlane, 'was the noise-less step of the camel from the spongy nature of his feet. Whatever be the nature of the ground—sand, or rock, or paved stones— you hear no footfall. You see an immense animal approach you stilly as a cloud floating in the air, and unless he wear a bell, your sense of hearing, acute as it may be, will give you no intimation of his presence.' Riley, too, ob-Riley, too, observes the silent passage of a train of camels up a rocky steep, and accounts for the silence, because their feet are as soft as sponge or leather. The structure of his stomach enables the camel to digest the coarsest vegetable tissues, and he even prefers such plants as a horse would not touch to the finest pasture. He is satisfied with very little, and if he should be stinted even of this hard

fare, the fat hump contains a store o ment to be taken up into the systen tain it till it reaches some oasis of tu ly bushes, which he discusses with est relish; and, if the best of liquid fills the water tanks with which h is fitted up, and goes on his way r Dr. Adam suggests that it is not i that the symmetry of the swift di will be found to be much more com that of the baggage camel. The lo latter is variously stated; some ma some 700, and others above 800 por Sandys says that he will carry 1,000. ness of the dromedary, el heirie, o travellers call it, maherry, may be with that of the high-mettled racer, endurance. 'When thou shalt mee and say to his rider, "Salem Alick," e have answered thee "Alick Salem," afar off, and nearly out of sight, for his like the wind. A sabayee, said swiftest of this breed, is good for (35 days of caravan travelling, in 5 day or 8 miles an hour, for 9 or 10 hour stated to be a common performance late lamented Captain Lyon, whose was strict, relates that a norther maherry's long trot, at the rate of ! hour, will endure for many hours —'Train up a child in the way go,' and, acting upon this principle, drivers of some parts of Africa, Sene stance, were wont, soon after the you was born, to tie its feet under its be a large cloth over its back, and plant stones upon each of the corners of that rested upon the ground. Thu Moors accustom the animal to receive which it was destined to carry thr of labor, generally prolonged to Females, indeed, and such fortunate are exempt from work, are said to ! or even 30 years. The European training the camel is not commenced attained the age of 4 years, when the first double up one of the forelegs, which is bind fast with a cord; this they p compel the trainee to come down bent knee. But all pupils are not cile; and, if this method should fail, times does, both legs are tied up, and falls upon both knees, and on th which protects the breast. This o often accompanied by a cry cation of the whip from the t degrees, the animal learns at last u upon its belly, with its legs double at the well-remembered cry and bk panied by a jerk of the halter. Havis so much obedience, the trainer p place a pack-saddle on the creats When it is accustomed to this ap light load is put on and gradually in it reaches the maximum, which is to be 400 kilogrammes, or above

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Il-grown camel. Such is the mode at Pisa; and though the Moors the animal into Spain, Pisa seems to

locality in Europe where the camel pred.—But although success attends reed seems to dwindle. The foal reed seems to dwindle. to be held up by attendants to take rial nourishment which, in a state of ie new-born creature must be in a conobtain without assistance, or the conof the species must cease."-For those ire to read a collection of the most anecdotes, and of curiously compiled I facts, concerning the habits of the loves and antipathies, its employment imal of warfare by the ancients, the ts collected in the armies of Semiraus, and Xerxes, their being harnessed ed chariots, the predilection of lions flesh in preference to that of any other and the consequent impossibility of cessful introduction in northern Africa 3 Romans had abolished the laws for ervation of lions in that region, which great preserve of those cruel carnivora upply of the circus maximus, no book can nended equal to that already named, " Leaves from the Note Book of list." One other particular he notes, rthy of observation, since the power sying water has been denied to the y many, and the possibility of exthat necessary liquid from his stomach, 1, has been denounced as a falsehood. appears that, although the cavity, pethe camel, may not deserve the name h stomach, and is used for the reception emasticated food, it yet contains a pe-stem of cells adapted to contain water, vided with a reticulated apparatus for hose cells while the dry food is in the ig, which possesses precisely the quali-etofore ascribed to it. "Then," says derip, "if we want extrinsic evidence, only to call one of the most truthful, witnesses that ever left friends to im. Capt. Lyon, upon the occasion of of one of these animals, says, in his teresting narrative: I never before opportunity of observing how water is I from the belly of a camel to satisfy t of an almost perishing caravan. It is stomach which contains the water, and sted food. This is strained through and then drank, and from those who en under the necessity of making use of rage, I learn that the taste is bitter. As I had recently drank, its stomach was ."-From Major Wayne's report we veral curious facts not mentioned above, a to the natural history of this singular have much valuable information conuse progress and prospects of its suc-naturalization in the United States. Sactrian species is found only," as a stator on the report in the "Nation-

al Intelligencer" informs us, "on the southern border of Siberia, in a portion of Tartary, and in the Crimea, and is a much heavier built, stouter limbed, and stronger animal than the Arabian. From the difficulty of loading it, on account of its 2 humps, its usefulness as a beast of burden is limited. It is sometimes, however, used for draught, being yoked to a wagon as oxen are. The great value of this camel is as a breeder, for crossing the male Bactrian with the female Arabian, the produce being a powerful one-humped hybrid; and for this purpose it is kept throughout camel-land, as breeding stallions are with us. The Arabian camel, to which variety belong most of the specimens brought to this country, is found throughout camel-land, and furnishes beasts both for burden and for riding. Its powers and hardiness vary with climate and breeding, and as a general rule its strength and endurance are greater the further north it is found." Of the hump, Major Wayne speaks as follows: "This peculiar characteristic of the camel, viewed, when its purpose is understood, in connection with its ability to carry its own supply of water for several days, exhibits one of those wonderful adaptations by the Almighty of animals to country, that excite our admiration and reverence. Composed of gelatinous fat, it contributes a stock of provision that by reabsorption furnishes the animal with sustenance, when the nature of the country, or any other unfortunate contingency, deprives it of a supply of food suffi-cient for its exertions. Stored thus, by the wise arrangement of Providence, with water and food to meet, for several days, should necessity or misfortune require it, the exigencies of an arid and unproductive country, the camel has, not inaptly, been called the ship of the desert. So well is the use of the hump understood in the East, that the condition of the animal is judged of, and its improvement, after a long journey, measured by it. It is not uncommon to see camels come in, after long and painful journeys, with backs almost straight, exhibiting but little if any hump. Beyond this supplying with food by reabsorption, the hump does not seem to be intimately connected with the animal's vitality; for Lireat Bey informed me that he had repeatedly opened with a sharp knife the humps of his dromedaries, when from high feeding they had become so plump as to prevent the fitting of the saddle, and removed large portions of the fat, without in any manner injuring or affecting the general health of the animal." In regard to the usefulness and adaptation to one sort of labor of the Arabian camel, and the comparative unfitness for other modes of employment, Major Wayne's account is, perhaps, the most practical and complete of any that has hitherto been given to the public. "From its formation," he says, "the Arabian camel is calculated for burden, and not for draught, though it has been used occasionally for ploughing, and has been harnessed by the English in India to their field batteries. Its

deep chest and strong fore legs enable it to support well a load placed over them, but its narrow loins, and long, ungainly hind legs, deprive it of the force necessary for the longitudinal strain. Its additional joint, too, in the hind legs, by which it is enabled to kneel down, and take a position particularly suited to the packing of burdens upon its back and of readily rising with them, indicates unmistakably its particular qualifications for that kind of service. Unfitted by the formation of its nostrils and lungs for violent exertion, its long regular strides, however, with its capacity for continuous labor, enable it to make extensive journeys in comparatively good time. It is said, and I believe it, that the camel will, on emergency, travel at its regular gait for 60 successive hours without stopping. Formed rather for a level than a broken country, the camel meets without inconvenience a fair amount of mountain and valley, and is not distressed in ascending or descending moderate slopes although they be long. The foot of the camel, clothed with a tough skin which some assert to be true horn, enables it to travel with facility over sand, gravel, or stones. It will also stand a tolerable degree of volcanic debris or rocky soil, and aided by art-provided with a shoe of hide, iron-shod at the bottom, and attached round the fetlock joint—it traverses these impediments without difficulty, and also ice and snow. In wet, clayey, and muddy soils the camel moves with embarrassment, is apt to alip and slide in it, without the ability to gather itself quickly." Major Wayne also bears testimony to the good quality of the camel's flesh as an edible, representing it as undistinguishable from the best beef, and of its milk as not to be known from that of the cow either by flavor or color. Its capacity to carry weight on continuous journeys he estimates, for the strongest camels, at from 450 to 600 lbs., for the common kinds from 800 to 450 lbs.; and these they will carry from 18 to 80 miles a day, according to the character of the country, whether broken or level, over which they travel, moving for the usual daily travelling time of from 8 to 10 hours. With lighter loads, they will The saddle dromedary, travel a little faster. or swift riding camel, he thinks, will carry from 150 to 800 lbs. continually, travelling from 8 to 10 hours, about 50 miles a day. On emergency, they will make from 70 to 90 miles a day, but only for a day or two, over a level country. There are at the present time in the United States about 70 camels, brought over at 2 importations, the first of 83, the other of 41, the latter being by far the larger animals. The present grand duke of Tuscany has, according to the report, 250, which, although badly cared for, out of condition, and neglected, do the work of 1,000 horses; and here the camels are reported greatly to outdo either mules or oxen. The true land of the camel is not, as many persons suppose, the tropics, or their confines; but, rather, the

northern regions of the temperate at thrive better, and are a larger, ha stronger animal, in central Asia, than or Arabia, and are at least as impati treme heat as of intense cold. St matter of doubt how far they will a rigor of the overland California passa; inclemency of the mountains; and probable that their utility will be rethe southern routes to the Pacific.

CAMEL, a machine for partially h so as to float them in shoal water, as It was invented and first applied by about the year 1688, in order to c ships over the sands of the Zuyder Zee sisted of 2 similar-shaped vessels abou long, 22 feet wide at one end, and other. These being brought one side of the ship, and secured to it passing under the keel from one to water was let into each till it sunk ne to the surface, the ropes being kep windlasses or capstans on the decl camels. The water being then p the camels as they rose lifted the them. For large ships heavy timbers out of the port holes, which took the the camels rose under them. Similar are used for carrying vessels over New Bedford harbor, and at Nantuck ing docks are constructed on the s ple, and vessels are often lightened of empty casks floated on each side, a

down by ropes passed under the keel.

CAMELS' HAIR. The hair of the an article of commerce in the East, a largely used for other purposes the which it is applied in other count rough fabrics of the middle ages, colinum and cameletum, were woven a terial, and the Arabs now make of i carpets, tents, and wearing apparel; Persians use it for like purposes. The apply it to the manufacture of 1 fine hair used for pencils of artists is from Smyrna, Constantinople, and A It is obtained from Persia, and is dis by three qualities—black, red, an which the best is the black; the gray is worth only half as much as the Brusil.

CAMEL'S RUMP, or CAMEL'S BATAIN, 17 miles from Montpelier, Vt., the highest peaks of the Green mount vation, 4,188 feet above tidewater. tain points of view it bears some to a crouching lion, and is occasion by a name given to designate this per

CAMELLIA, a genus of shrubs be the natural order ternstromiaces, and the domestic drug tea and some of beautiful of cultivated flowers. All t are natives of China, Japan, or Neps were first imported into Europe by Jesuit named Kamel, about the v hence the name of Camellia. T

cotyledons, with alternate feather-veined regular flowers, the petals and sepals mubricated in sestivation, and have some tw with the rose tribe. The C. bohes and the species whose dried leaves make ves or commerce. None of the species bear nt flowers. The C. Japonica is called by we rrench la rose du Japon, or la rose de la Chine. It has broad shining leaves and beautifilred or white flowers, single or double, and is the origin of nearly all the varieties now cultivated in gardens. It is greatly admired in China and Japan, and is of frequent occurrence in Chinese paintings. Many of its varieties have been created by the skill of the Chinese, and are remarkable for their brilliant colors and the exquisite symmetry with which their petals are arranged. These have been imported into Europe and America, and new varieties are annully produced by horticulturists. Forty-five standard varieties have been developed, some having single, some double, and some semidouble flowers, and being in color, white, red, yellow, or variegated. Camellias thrive best when treated as conservatory shrubs, planted in the open border under glass, freely exposed to hight and air, and sufficiently protected from the frost. Thus treated, they become large evergreen bushes, densely covered with foliage, upon which their splendid flowers are conspicwously beautiful, and much more brilliant than when the roots are confined in garden pots and cramped for want of room. They are propagated by cuttings, layers, and buds, as well as by seeds. Only a few seeds, however, can be obtained, and these require 2 years to come up, but make the best stocks of any. The C. reticulata, which grows in China, is esteemed the handsomest of all the varieties. Its leaves are remarkably netted, and it has semi-double flowen, of a deep rose-red color, sometimes 6 inches in diameter. Two species, the C. sasanqua and the C. oleifera, are cultivated as oleaginous plants in China, and the oil pressed from the seeds is said to be equal to the finest quality of olive oil. Attempts are now in progress to naturalize this very useful plant in the south of France, and in the French possessions of Algiers. CAMELOPARD (giraffa camelopardalis of

CAMELOPARD (giraffa camelopardalis of most authors; cervus camelopardalis of Linnæus), the giraffe, or camel-leopard; an African genus of the ruminants, with persistent horns, common to both sexes, having but a single species, as above. The characteristics of this singular asimal, which appears, in some particulars, to participate in the qualities of the camel, the ox, and the antelope, are these: The lip is not grooved, is entirely covered with hair, and is very much produced before the nostril; the tongue is extremely long and prehensile, capable of being approtracted or retracted at will, and of being tapered so as to enter the ring of a small key; the neck is very long, the body short, hind part lower; false hoof none; tail clongate, with a tuft of thick hair at the end. It is the horns, however, which constitute the

principal generic characteristic; since they are not, correctly, horns of either form, that of the bevide, which are hollow and persistent, or that of the cervida, which are solid and annually renewed, but are, in fact, bones, exhibiting throughout precisely the same structure as the other bones, united to the frontal and parietal bones by a distinct suture, covered with a hairy skin. and terminating in a ring of bristly hairs at the summit, surrounding a bare apex. These bristles, according to some naturalists, want only the gluten to cement them into true horns, and embody the animal in the systematic arrangement of the cavicornia. The camelopard is assimilated to the camel by the length of its neck, by the callosities on its chest and knees, and by its having no false hoofs; to the other ruminants by the structure of its stomach and digestive organs generally, and by its non-possession of the reticulated water bag, peculiar to the "ship of the desert." To the antelopes it is assimilated by the fact that the coils of its colon are spiral, and that its cocum is simple. To the solid-horned deer, which shed and renew those appendages annually, it is connected by what is assumed to be a fact, its having no gall bladder. It seems doubtful, however, whether this can be considered as fully established; since, of 8 individuals dissected by Professor Owen, 2 males had no trace of a gall bladder, while the 3d, a female, had a double gall bladder, each bladder of the usual size. This last has been held to be an abnormal case and the animal a monstrosity, and the camelopard is consequently classed, in this respect, with the deer and antelopes, in which the absence of the gall bladder is the rule. In its dental system, the camelopard offers the same formula with the deer, goat, antelope, sheep, and ox, namely: incisors $\frac{2}{3}$; canines $\frac{2}{3}$; molars $\frac{2}{3}-\frac{2}{3}=82$. The nostrils of the camelopard are provided with cutaneous sphinoter muscles, and can be shut at will like the eyes. The eyes are beautiful, extremely large, soft and brilliant, and are so placed that the animal can see much of what is passing on all sides and even behind it. Thus it is approached with the greatest difficulty; and if surprised or run down, it can direct the rapid storm of kicks, by which it defends itself, in the most accurate manner. Its horny hoofs are divided, and it wants the 2 small lateral toes generally seen in the true ruminants; from which this, again, distinguishes it.—In this truly singular and beautiful animal, as in all the works of nature, appear, not, as the carping Buffon constantly asserts, malformations and deficiencies, which render the creature unhappy and ill at ease, but the most extraordinary adaptation of all its parts, and application of all the contrivances of its mechanism, to the very stage and the very part on and in which it is to figure among the wonderful works of creation. Many things, given to other creatures in accordance with their wants, are denied to this, because they would be in this case wholly useless; while others, unknown to the rest, are bestowed on it in abundance.

Thus the immense length of its legs and height of the animal at the withers, raising the insertion of the neck, long and towering as is that portion of its frame, to such a distance from the ground that the animal can graze on an even surface only with difficulty and by straddling the fore legs wide apart, enables it to feed on what it prefers as food, and finds in abundance in the sandy and arid tracts where the superficial vegetation of the soil, except at certain seasons, is scarce, dry, and innutritious, namely, the delicate and succulent leaves and twigs of the tallest trees, particularly those of a species of mimosa peculiar to the districts which it inhabits. The peculiar conforma-tion of the extensile and prehensile tongue, which is furnished with rough papille capable of voluntary erection, enables it to gather and collect into little bundles the soft leaves which it loves, in a degree scarcely inferior to that possessed by the proboscis of the elephant. The same quality is observable in the prehensile upper lip of the moose deer, which, like the giraffe, is not principally a grazing, but a browsing, animal. Its eyes, such as they are described above, give it facilities for avoiding stealthy attacks, which probably are those alone to which it is usually subject; since the only beasts of prey, of the regions which it inhabits, likely to attack it, the lion and the leopard, invariably attack by surprise and at a single bound, which missed, they both sullenly retreat without any effort to pursue. Again, its speed, which has been represented by some writers as contemptible, owing to a certain awkwardness in the management of its limbs and slowness in getting under way, is by no means so, in truth; as is shown by the statement of all hunters who have pursued it, particularly the African Nimrod, Capt. Gordon Cumming; all of whom testify that, being a timid and wary animal, and always securing for itself a good start, it is not easily overtaken, except by a swift horse. Its paces are a trot, a pace with both legs moved on the same side, and a regular gallop, by changing from one to the other of which, with no apparent diminution of its speed, it can keep up a considerable rate of going-not of course equal to that of the deer, antelope, greyhound, or race-horse, but in all respects sufficient for its purposes for a long continued space of time and distance. Where water and pasture are to be found only at long intervals, and where swift pursuit is not a contingency naturally to be provided against—since Cummings, mounted on Colesbergs and armed with 2-grooved rifles, do not come within the category of the natural enemies of the giraffe—the power of continued locomotion for great distances is a far more necessary qualification for a life in the desert, than that of exerting a great turn of speed over a short course. It has been said that it has not strength to defend itself, but Le Vaillant, who is the first well-informed modern zoologist who saw it in a state of nature, asserts that "he

knows beyond a doubt, that by i often tires out, discourages, and ethe lion." The same fact is show Cumming's mention, on more the sion, of his seeing or killing came large unhealed wounds on their sl haunches, made by the cruel cla which in those cases must actual ceeded in their first spring, and shaken from their hold by the mus and beaten off by the iron heels of t ly defenceless ruminant. Of the s tation of the camelopard to the scenery he inhabits, the observar and sportsman—to whose enterpris much of our knowledge of the faunt and central Africa, yet to whom we ly pardon his wholesale butchery o beautiful, so inoffensive, so harml in their central wilds, and so ut and unprofitable when slain, as which, by his own account, he sh scores, unresisting and weeping in not at a single shot, but by the slow protracted volleys-speaks as follov often traced a remarkable reser tween the animal and the general of the locality in which it is found after pointing out many such analog ordinary small animals, reptiles, and the natural objects among which t proceeds thus: "In like manner, a rupeds, I have traced a consideral for even in the case of the stupendo the ashy color of his hide so corre the general appearance of the g jungles which he frequents through that a person unaccustomed to l standing upon a commanding site look down upon a herd of elephane detect their presence. And furt case of the giraffe, which is inv with among venerable forests, wl able blasted and weather-b stems occur, I have been repeatedly to the presence of a troop of them recourse to my spy-glass; and on 1 case to my savage attendants, I l even their optics to fail—at one tin the dilapidated trunks for camel again confounding real camelopard aged veterans of the forest." when full-grown, appears so a height of 15, 16, and even was formerly believed almost though quite erroneously, that the are much longer than the hine very reverse being the case; examination of the skeleton, only from the setting on, the hind longer by about one inch. The g ment and height of the withers. needed to give a proper base to t and towering crest, have been the error; the same mistake has prevail to the American moose deer, the

we the same extraordinary elevation shoulder, with a comparatively short ular neck. This erroneous opinion is in the following dimensions, which is of a male camelopard killed in the fighther than the fighther

he head	1	8
om lower to upper part	10	0
r part of fore leg to the top of the head	7	0
of fore leg to upper part of hind leg	5	6
of hind leg to the tail	.1	0
he hind leg, upper to lower part	8	5
.		

al, therefore, was probably 17 feet in its 1 from the earth to the crown of the ne mentioned as killed by Mr. Pater-15 feet in height, but of the 3 recently he zoological gardens at London, one, ah, male, measured, in all, 13 ft. 8 in., ft. 11 in., croup 6 ft. 11 in.; Selim, male, t., withers 7 ft. 5½ in., croup 6 ft. 7 in.; nale, in all, 12 ft. 11 in., withers 7 ft. 4 o 6 ft. 7 in. None of these were supbe full-grown, although the female had 8 young ones, notwithstanding which till growing.—The color of the camelous both in its intensity and in the mode

on. The head is generally of a uniusu brown; the neck, back, and sides, of the shoulders and thighs, varied tessellated, dull, rust-colored marks are form, with white septaria, or narsions; on the sides the marks are less the belly and legs are whitish, faintly the part of the tail next to the body ed with short, smooth hairs, the trunk lender, and toward the end the hairs long, black, and coarse, and form a t hauging far beyond the tip of the The coloring of the female is less vivid t of the male; she is somewhat smaller, the peculiar protuberance of the frontal ween the eyes, which is common to es, and which by some writers has ed a rudimental horn, less strongly dethan the male animal.—The camelobeen long known to history. the painted walls of the sekos of the ium, discovered and described by Beld is also represented on the celebrated

pavement, said to have been conuy the orders of Sylla, who had served or in Numidia. It was exhibited in the azimus by Julius Casar, alive, for the s in Europe, but was afterward a frettacle at the cruel shows of Rome. the third of the name, once exhibitgether on a single occasion. It conbe known and described by travellers, have been brought into Europe until

ly. One was presented by the prince to the emperor Frederic II., in the to the 18th century; another was given

in the 15th by the soldan of Egypt to Lorenzo de' Medici, and none were introduced subsequently until the year 1827, when 2 giraffes were sent by the pasha of Egypt, one to France and the other to England, the former of which lived some time in the jardin des plantes; but the latter died soon after its arrival at the royal cottage, in Windsor park. Subsequently specimens were forwarded to Venice and Constantinople, by the same munificent potentate, whose successor has recently enriched the English collection with a living hippopotamus. One was exhibited in this country in 1838 and several others since. In 1836, the London zoological society imported 4, 8 males and 1 female, at the expense of £2,886, or nearly \$12,000. One of the males died shortly after their arrival, but the others, the measurements of which are given above, are still, it is believed, thriving; and, having several times reproduced their kind, they may be supposed to be thoroughly acclimated. In its natural, as in its domesticated state, the camelopard is a gentle, timid, shy, and inoffensive animal; yet it is extremely docile in confinement, feeds from the hand, licks the hand which feeds it, and becomes friends with those who are kind to it. Its natural range appears to be all the wooded parts of eastern, central, and southern Africa, from Sennaar and Abyssinia to Senegal and the vicinity of the settlements of the Cape of Good Hope, although, like all wild animals, it retreats as the white man advances, and recedes before the approach of civilization. In domestication it serves no purpose but to gratify curiosity and to promote the study of nature, since it is unfit for draught; and although its flesh is said by hunters to be eatable, it is not suitable for furnishing either meat or milk.

CAMELOPARDALUS, the camelopard or giraffe, a constellation instituted by Hevelius. It lies between the N. pole, the Wagoner, Cassiopeia, and the head of the Great Bear, and contains small stars of the 4th magnitude only.

CAMENZ (Ger. Kamenz), a town of Saxony, on the White Elster, pop. about 4,000, the birth-place of Lessing, and containing a hospital dedicated to his memory, Jan. 8, 1826. The town was almost wholly destroyed by fire in 1742, but has been rebuilt since.

CAMEO, originally a gem in different colored layers, carved in relief with figures that contrast with the color of the background. Varieties of chalcedony, onyx, and sardonyx are the most common gems used; but softer and cheaper materials are of late much employed for this purpose, which will be noticed below. Cameocutting is an art of remote origin, and the word is of obscure derivation. It is referred by some to the oriental word camehuia, signifying another stone, or one stone placed upon another; to the Arabic word camea, signifying relief, boss; and by others to the Greek sampan, Lat. camera, a vault, or an arched covering, in a similar sense to the last. The art was certainly practised by the Egyptians, and was brought to a high state of perfection by the

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Greeks; and yet it is probably not so old as the simpler process of carving in intaglio. Beside employing the natural gems, the Latins made use, in the time of Pliny, of an artificial paste in 2 colors, called vitrum obsidianum. But the hard stones used by the Greeks, by the delicacy of finish of which they are susceptible, and by the durability of the lines carved upon them, have proved a better material for transmitting to distant ages an idea of the high attainments of this cultivated people in art, than either bronze or marble. Neither the one, shrouded in its prized patina, nor the other, disguised in quasi restorations, can convey an idea of the patient labor and exquisite skill that curled the hair of Hercules, or brought out the expression of disdain that inflated the nostrils of Apollo, or the supreme intelligence beneath the helmet of Minerva, or of power, controlling gods and men, in the mien of Jupiter. Even now connoisseurs distinguish between modern gems and those cut more than 2,000 years ago, by the superior polish of the latter. In the 4th century, cameo-cutting had fallen into disuse, the art ending, as it began, in lifeless stone. On its revival in Rome, in the 15th century, gemengraving received especial patronage from Lorenzo and Pietro de Medici. Specimens of this period rival in perfection those of more ancient times. The art has since continued to be extensively practised in Italy; but its adoption in other parts of Europe can hardly be referred beyond the present cen-tury. The chief peculiarity of the Italian style is the converting of blemishes in the material into points of attraction, and bringing them boldly out in alto rilievo, as if designed for some special representation; while the Greek, seeking perfect harmony in the colors of the gem, by a series of subtle curves and most delicate lines running through its low relief, effectually concealed the labor, made so obvious in the productions of later times. The first cameo of which we have account is that of Polycrates' ring, by "Theodorus of Samos, son of Telectes the Samian." Among the finest cameos are those in the imperial cabinet of St. Petersburg; one of Perseus and Andromeda, on a pale brown sard, the figures of exquisite finish in high relief; the other of Ptolemy II. and the first Arsinoë; the same Ptolemy and the second Arsinoë appear on a gem of inferior merit in the Vienna museum. That representing the apotheosis of Augustus, in the Bibliotheque impériale at Paris, is the largest and one of the most famous of these works; it is an onyx measuring 121 inches in one direction, and 101 in another. This antique cameo contains 22 figures. It is often known by the name of Agate de la sainte chapelle, from the holy chapel of the palace to which it was consigned by Charles V. It was there regarded as representing the triumph of Joseph under Pharach. It came originally from the East in the time of St. Louis. This collection contains many other choice works of this kind. At Naples is

one ranked among the apotheosis of Ptolemy ou of Medusa on the other. VI LUB! eos, the most noted is the Mantus Brunswick, representing on one seeking her daughter-on the other, dess teaching agriculture to Triptole Ekaterinburg, in the Ural mountains, ("Western and Oriental Siberia," p. 1 of seeing a workman engaged in a head of Ajax, after the antique per of 2 colors, the ground a dark ; the head a yellowish cream color, high relief, and intended for a br was a splendid production of art, m ever, at a cost for labor of only 8s. 8 per month, and 36 lbs. of rye flour. countries, where this skill comman prices, the great expense of cutting t substances has led to the substitutio er materials, and varieties of porc of enamelled glass are often now the material most extensively emplo shell of various species of molluse while it is easily carved, presents l: fine natural polish and beautiful colors. of shells began in Rome about the and for some years the whole consum about 800 per annum, all of which from England, and sold in Rome for sterling each. In 1847 the consumptive come very large in Paris, so that th that year were reported to amount to n 100,500 shells, at an aggregate cost c The shells are of 4 varieties only, and the bull's mouth, black helmet, horne and queen conch. Of the first name were sold at an average price of 1: the 2d, 8,000 at 5s. each; of the 8d, 6d.; and of the 4th, 12,000 at 1s. ! queen conch is referred to by Woo the cassis Madagascariensis. This a tuberosa he describes as presenting upon a dark claret color; the C. corn on orange ground; the C. rufa, a pa on orange; and Strombus gigas, pink. ("Manual of the Mollusca," pp and 114.) The black helmet is pro C. tuberosa, which, under its commen is elsewhere spoken of as presenting upper layer upon a dark, almost blac The horned helmet is no doubt the C The bull's mouth we judge is the & gas, of which Woodward states brought to Liverpool in 1850 for porcelain. Although the shells were to the trade by the English, and the vi cameos produced in Paris in 1846 was at £40,000, there were at that time than 6 persons employed in the art in E Cameo-cutting, in this country, can said to be introduced as a branch of The beauty and neatness of the 1 caused it to be taken up by 1 practised for amusement by grown dies, the pieces of shell being p

i to them by the lapidaries. These pieces out of the required size by a metallic with diamond dust, or emery and water, then shaped by grinding and whetting. ce is then cemented upon a stick, which - a handle during the operation of cutdesign is marked out with a pencil, n scratched in with a sharp point. The afterward done with the use of a or delicate pointed instruments made n wire, as also of small files and gravers. ffel ("Mechanical Manipulations," vol. mves particular directions respecting the , with care to leave every projection m in excess, to be gradually reduced as the and finish of the work are approached. er the high parts more distinct during cess of carving, it will be found conveno mark them slightly with a black-lead Throughout the cutting, great caution be observed that in removing the white s the dark ground is not damaged, as mural surface of the dark layer is far suand the ground be broken up at one would be requisite from its lamellar re to remove the entire scale or lamina whole surface, a process that will be very tedious and much more diffi-n the separation of the white from thickness. In order that the fino may possess a distinct outline ollowed in antique cameos, namely, ave an the edges of the figure quite square ground, and not gradually rounded w the dark surface. Should the latter l be followed, it will be found that the in many places undefined, owing to emerging into that of the dark ground. was entirely avoided by leaving the edge figure quite square for the thickness of I of an inch. The surface of the cameo e finished as nearly as possible with the tools, as all polishing with abrasive s is liable to remove the sharp angles of wares, and deteriorate the cameo by leaving undefined. When, however, the work finished as smooth as possible with the cools, the final polish may be given by a atty-powder used dry upon a moderately oth-brush, applied with care, and rather to ground than to the carved surface; this luding process, after which the cameo v for removing from the block prior to -Cameos carved in onyx and carmore skill, as well as labor, than A drawing is first made on an 41011. I from this a model in wax of PL SCS outline is then drawn on) engraving is executed with wors used by the lapidary for engraving being drills of soft metal, as copper or made to revolve rapidly, and fed with

smery and oil. False cameos are sometimes made by carefully cutting out the engraved portion of antique gems and attaching this to a ground of agate of another color. Beudant (Miniralogis, vol. i. p. 706) refers to some cameos in a slaty kind of onyx, schietes engag, which are brought from Ohina as objects of curiosity. They are sheets of rock resembling very compact slates, and presenting 8 or 4 differently colored layers; one a brown, which is the ground, others red, white, and greenish. In these the Chinese have sculptured various objects, as the interiors of houses, and landscapes, which are sometimes enlivened with figures of men and animals. Some are so large that they may be regarded as bass-reliefs for interior decorations.

CAMERA ÆOLIA, a substitute for a bellows, made by a falling stream of water.

CAMERA LUCIDA, an instrument invented by Dr. Wollaston, consisting of a quadrangular prism, used as a mirror. The light coming from an object is made to strike one face of the prism at right angles, then to be reflected from the inside of the 2d face to the inside of the 3d, then thrown out (to the eye of the observer) at right angles to the 4th face of the prism. The instrument is used for drawing outlines, the eye being so held that you look with the upper half of the pupil into the prism, and with the lower half outside the prism at the pencil and paper on which the image seen in the prism appears to lie.

CAMERA OBSCURA, an instrument invented in the middle ages, in which the image of illuminated objects formed by a convex lens is received upon a screen in a darkened chamber, or in a box. It was for centuries used as amusement, or as a guide in drawing outlines; but, by the invention of Daguerre, was suddenly invested with new and incalculable value as the main instrument in photography.

CAMERARIUS, JOACHIM, a German scholar, born at Bamberg, April 12, 1500, died in Leipsic, April 17, 1574. His proper name was Liebhard, which he changed into Camerarius, in honor of the office of chamberlain, which his ancestors held at the court of the bishop of Bamberg. Educated at Leipsic and Erfurt, his attention was arrested by the writings of Melanchthon, and in 1521 he went to Wittenberg to make the acquaintance of that reformer. From this time his life and influence were identified with the reformation. In 1526 he was appointed teacher at Nuremberg, and was afterward sent to the university of Tubingen. The duke of Saxony, a few years later, employed him to remodel the Leipsic university. ty, of which he was afterward appointed rector. In 1580 he was at the diet of Augsburg, and gave important aid in drawing up the celebrated confession of that name; and when, in 1555, it assembled again, Camerarius continued an active and prominent delegate, and in the year following was at Ratisbon in the same espacity. In 1558 he was

called to Vienna by the emperor Maximilian to counsel in the critical affairs of the empire in regard to religion. Camerarius was a scholar of extensive and varied learning. He particularly cultivated medicine, mathematics, and Greek. His works (more than 150 distinct treatises) are mostly on classical and religious subjects. His biography of Melanchthon, of which a new edition appeared in Halle in 1777, and his collection of letters of Melanchthon, are peculiarly interesting to the student of the times of the reformation.—Joachim, son of the preceding, born at Nuremberg, Nov. 5, 1584, died there Oct. 11, 1598, was sent successively to Wittenberg and Leipsic, and also studied with Melanchthon. He received a medical diploma at Bologna in 1562. Botany was his favorite study. A genus of plants (Cameraria) was named after him.

CAMERLINGO, or CAMARLINGO, one of the highest officers of the Roman court. The camerlingo exercises supreme power when the papel chair is vacated, and, as the head of the government, controls the treasury and administers justice. He presides over the apostolic chamber. The present camerlingo is Cardinal Ludovico Altieri, and the vice-camerlingo

is Antonio Matteucci.

CAMERON, a southern county of Texas, bordering on the gulf of Mexico, separated from Moxico on the south by the Rio Grande, and containing 5,460 sq. m. The soil, though fertile and well adapted to cotton, maize, and the sugar-cane, is very little cultivated, most of the wealth of the inhabitants consisting of live stock, the value of which, in 1856, was \$103,-240. The surface is dotted with numerous lakes, many of which yield excellent salt. The largest of these, called Sal del Rey, is capable of producing almost unlimited quantities. In 1850 the harvest amounted to 8,700 bushels of corn and 2,000 lbs. of wool. There were 4 churches, and 415 pupils attending public and other schools. The county was named in honor of Capt. Cameron, who fell in the Mier expedition. Pop. in 1856, 3,755, of whom 11 were slaves. Capital, Brownsville.

pedition. Pop. in 1856, 3,755, of whom 11 were slaves. Capital, Brownsville.

CAMERON, JOHN, a Scottish theologian born at Glasgow about 1579, died about 1625. He received his education in the university of his native city, and made such proficiency in the Greek language, that at the age of 19 he read lectures in Greek, and discoursed in it with as much ease as the scholars of his day generally did in Latin. This laid the foundation for his distinction. He spent some time in France, where he made the acquaintance of many eminent Protestants, and where he was eventually appointed regent of the university of Bergerac, but soon vacated this chair in favor of that of philosophy at Sedan, which appointment he received through the favor of the duc de The chair of Greek at Sedan he declined. At Sedan he remained but 2 years, removing to Bordeaux. By a provision of the shurch 4 theological students of promise were

constantly supported from the cl Cameron was nominated one of these, the next 4 years successively at Paris, and Heidelberg. At the expiration of the returned to Bordeaux. In 1618 he pointed to succeed Gomarus in the cl vinity at Saumur. The civil wars by when was distressed caused the dispersion of versity (1620), and Cameron returned a tive town. Here he received an appe as regent of the university of Glass Boyd, his predecessor, had been rem account of Presbyterianism, Cameron urally accused by his townsmen of le: This caused him to re-Episcopacy. office before the expiration of a year. ing to France, he gave private theolog tures at Saumur, until in 1624 he was ed professor of divinity at Montanbar doctrine of passive obedience which he mulgated, exposed him to the censures Protestants, and he withdrew to Mois soon returned to Montauban, where he a wound given by an unknown hand. and works have been published b Cappel, a professor of Hebrew, and at of divinity at Saumur. Cameron he peculiar doctrines on the action of t which distinguished him from the Ca and also sufficiently from the Arminisi theory of will was based on the positi it could only be acted on by motive a through the judgment or intellect. The of Dort had promulgated that God operations of the control of the contro the human will by a direct interpositio vine power, restraining and directing it and by enlightening the understanding it would influence the will to a given Cameron's theory sought to reduce modes of the divine government of will into one. He was accused by Cal Pelagianism. He also taught the univ of the effects of Christ's sacrifice, and we nated a Universalist. His followers wer Amyraldists, and also from him, Came They are to be distinguished from C

CAMERON, RICHARD, the founder religious body called Cameronians. born in Falkland, Fife co., Scotland, 20, 1680. His father was a small shop and an Episcopalian. Cameron, hav ceived such an education as the p school of his native town was able to followed for a time the religious his father, and was appointed | parish school. This made him ea e precentor of the parish church. But heard some field-preachers, Richard w verted to Presbyterianism. Resigning fice as parochial master, he was promoted degree of field-licentiate, under the im of hands by John Welch. The Presbytes at that time divided into 2 parties, on acc a bill denominated the indulgence, wh making their worship legal, was des harmonize them with the government . religion. A part of the ministers indulgence, and their congregations under it peaceably. But a part reotection, and opposed their brethiescence. The recusants were vioter against the indulged ministers. on became a powerful leader of the nd when the government issued a to suppress them, he found himninent in the opposition that he necessary to flee to Holland for however returned in 1680, and reostility to the course of the govi, although he had somewhat comimself with the indulged party, opposition to such an extreme ter the defeat of Bothwell Bridge, into Sanguhar at the head of his ally declared war against the govl exasperated the royal troops to ar Aird's Moss, in which he was his head and hands were cut off, linburgh, and publicly exposed on Port. Before the engagement, he he severest invectives against the ind all who favored or accepted it, ard to pray that the Lord, in the I "spare the green and take the name, first applied to his followers, e erroneously extended to the per-byterians in general. The 26th sbyterians in general. ised at the revolution out of the inhabitants, was called the Camnt, an appellation which it still ron was believed by his followprophesied the fate of his hands. ning of the fatal engagement of He gave special attention to , under the expectation that they

become a public spectacle. NIANS, a sect of Scotch Presbyters, named after Richard Cameron. l enforced on his Scottish subjects nich the people abhorred as they ice to Baal. This exercise of the ative led, in 1638, to the formation ant, "in behalf of the true religion lom of the kingdom." The organi-Scottish presbytery was still fured in the adoption of the Presbytechurch government, a Calvinistic faith, and the 2 catechisms, which ere the standards of the Scottish lay. The act of 1661 of the Engch parliaments against conventicles, persecutions conducted by Turner, Drummond, the famous writ of issued by the king against his jects in 1670, the intercommuning Lauderdale and Sharpe, and the Mitchell in 1679, had all contribperate the Covenanters to a degree ance ceased to be a duty, in the see stern old followers of Knox. nters had made a stand at Bothwell l had been disastrously defeated.

Many of them had lost courage, and were screening themselves from royal vengeance by frequenting the churches of the indulged ministers. But a few, headed by Cameron and Cargill, met at Sanquhar (June 22, 1680), and there promulgated "A Declaration and Testimonie of the true Presbyterian, Anti-Prelatic, Anti-Erastian, and Persecuted Party in Scotland," proclaimed war against the king as a tyrant and usurper, and protested against receiving the duke of York in Scotland. Only about 26 horse and 40 foot forces could be mustered to sustain the Sanquhar declaration. But these few were not to be dismayed. They boldly took stand at Aird's Moss, Kyle, on July 20 following, where Cameron fell in a skirmish with several of his followers. Cargill escaped and continued to preach the doctrines of the sect, in fields and woods. When the royalists added the test (1681), the Covenanters, or Cameronians, as they are henceforth to be known, formally denounced it at Lanark, Jan. 12, 1682, and again affirmed the Sanquhar declaration. This they repeated again in 1684, and in 1685, on the accession of the duke of York (James II.), hurled again from Sanquhar the same manifesto and protest. Throughout the revolution which followed, the Cameronians maintained the same inflexible hostility to the royal usurpation of religious freedom, and stand to-day where they did in the Sanquhar proclamation, though with less fanaticism. They supported the prince of Orange on his assuming the crown of England, but were displeased and disappointed by the form in which the Presbyterian church was restored. In 1709 they exerted all their influence against the union of Scotland and England. They are more properly in Scotland denominated "Old Presbyterian Dissenters," as Calvinistic in doctrine, Presbyterian in government, and dissenters from the church of Scotland. The presbytery of this denomination was not organized until Aug. 1, 1748, when an act of toleration was procured in their favor. There are now 5 presbyteries, united in a synod. Their numbers in Scotland are between 6,000 and 7,000. They have a synod in Ireland, several congregations in England, and in the United States about 60 congregations.

CAMEROONS, or CAMERONES, a river of Upper Guines. It enters the bight of Biafra by an estuary 20 m. wide, in which are several large islands. Around its mouth the shores are overgrown with mangroves. For about 40 m. above this, it preserves an average breadth of 400 yards, and at a point 90 m. distant from the sea it forms a cataract. During the rainy season it is navigable by vessels of any size, but in the dry season its depth is only from 2 to 20 feet. Its total length is unknown. On one of the islands at its mouth is the town of Cameroons, the centre of an important commerce, importing salt, powder, cloths, hats, and arms, and exporting gum penner, ivory, and palm off.

and exporting gum, pepper, ivory, and palm oil.

CAMEROONS' MOUNTAINS, a chain of
western Africa. The highest peak, which is

covered nearly to the summit with dense woods, has an elevation of 13,000 feet, and is apparently the commencement of a volcanic range stretching N. E. and uniting with the Mountains of the Moon.

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CAMETA, a flourishing town in the province of Para, Brazil. It is situated on the Tocantins, in an extremely fertile district, whose population is 20,000.

CAMIGUIN ISLAND, one of the Babuyanes islands, in the Malay archipelago. It is from 7 to 9 m. long, high, and very hilly. The southern part consists of a mountain formerly a volcano, and coral rocks extend along the shores. The port of San Pio Quinto, on the W. side of the island, is the only place which affords even tolerable shelter for large vessels.

CAMILLUS, MARCUS FURIUS, a Roman magistrate, died of pestilence in 365 B. C., whose name is connected with the greatest events of a long period of the history of the republic, and whose life has probably been adorned with many a legend, appears first as censor in the year 403 B. C., then several times as consular tribune, 5 times as dictator, and twice as interrex. Having served during the siege of Veii, and in the war against Falerii, he defeated, in his 1st dictatorship, the Falisci, Capenates, Fidenates, and other tribes, advanced to Veii, penetrated through a subterranean passage into the city, and thus put an end to its siege, which had already lasted 10 years. He made his triumphal entrance at Rome in a chariot drawn by 4 white horses, and asked the 10th part of the booty, to accomplish a vow to Apollo, for which circumstances his enemies accused him But he earned new of pride and extortion. glory by the conquest of Falerii, which surrendered to his generosity, as proved in the repudiation of an act of treachery committed by a schoolmaster. His continued opposition to the emigration of the people to Veii, rendered him unpopular; accused of having embezzled a part of the booty of that city, he left Rome, and lived in exile at Ardea, when the Gauls under Brennus invaded and pillaged Rome. He repulsed them from Ardea, was secretly recalled by the defenders of the capitol, and appeared at Rome, according to a legend, at the head of an army, at the moment when the gold for which the Romans purchased peace was being weighed before the insulting conqueror. "Rome buys her freedom with iron," he exclaimed, and proved it. He routed the Gauls twice, had a new triumph, was called a second Romulus, and prevailed again against the desertion of Rome, now in ruins. He subsequently defeated a coalition of the Equi, Volsci, Etrurians, and Latins, was successful in a war against Antium, had to struggle against the rivalry of Manlius, and, as dictator for the 5th time, against the agitation of Licinius Stolo, and was, at the age of 80, once more victorious over the Gauls. Camillus was the resolute champion of the patricians, and resigned his 4th dictatorship in 367 B. C., when he found it

hopeless to resist the increasing dema plebeians. He is the great here of and his virtues and exploits are reco exaggerated praise by Livy and Pluta CAMINATZIN, or CACTMAZIN, a

king, died in 1521. He was nepher Montezuma, and reigned over Tezcuco cipal city of Anahuac. The best citiz state, the nobles and priests, saw witl tion the humiliation of their king and under Cortes and the Spaniards. Ca with more courage and enterprise than proposed to his subjects a declaration against the foreigners. The propose ceived with enthusiasm, and Camina! upon the Spaniards to leave the count diately or to expect to be treated as Cortes was preparing to march his arn Tezcuco, when the representations zuma concerning the defences of the the daring of the population, induce change his plan, and to resort to treasof force. At his instigation Montezur his nephew to Mexico to become recon the Spaniards. The answer of Camir that he could enter Mexico only to d tyrants of his country. Montezuma spatched secret agents to Tezcuco to session of the young prince by whater Ilis first officers and nearest friends rupted, and he was delivered by them and imprisoned. He was released aft pulsion of the Spaniards, and is su have perished soon after in the siege

CAMISARDS, French Protestanti belled in the Cevennes at the beginn 18th century, so called from a kind frock which they wore, called camias also called Cevenols. As early as the tury the Albigenses and Waldenses 1 refuge in the Cevennes; and their opin vailing among a sober and virtuous pe lived the persecutions to which they t sionally subjected. After the reform adopted the Calvinistic creed. They peaceful disposition; but during the Louis XIV, they were subjected to al of violent and merciless persecutions nent among their enemies was the Abb la, who subjected many of them to to: a night in 1702, a few hundred of the the castle of Pont de Montvert, his seized on the hated priest and murd. This was the signal of general reb the Cevenols, or, as they were now c Camisards, flew to arms, incited by th for vengeance and incensed by the spe prophecies of some among them who to be inspired. "No taxes." and "l conscience," were the devices inset their standards. They were communicated their standards in the serve communication and serve communications are server consistent and serv army and possessed some military kn-Jean Cavalier, a journeyman baker wh evinced remarkable talents; Ravenal Maurel, surnamed Catinat. It v

marshal de Montrevel, who was first ist them, thought that terror and soe the only means of subduing such e had their villages burned, and all the langed or broken on the wheel. The in their turn burned and pillaged illages, sacked churches, and massas. At last Marshal Villars succeeded ess Montrevel, and tried clemency and ; through skilful negotiations and gennises, he brought a number of Camrms, among them Jean Cavalier, who he ablest and most popular of their t this submission, though a heavy loss irgents, did not bring the contest to Javalier was cursed as a traitor by in; and the other leaders, and espeind, continued to resist. But Roland m killed in 1704 in a night engagehostilities slackened, the country was pacified, and Marshal Villars left it service. In 1705, however, Marshal ad again to crush a rebellion. A few , through the agency of some Dutch a new rising took place in the Vivat of the Cevennes country; and its n was a hard task for the enfeebled nt of Louis XIV. The Camisards est and virtuous people; but their wrongfully assumed by troops of robabout the same period, pillaged some Languedoc.—A new work on the by Ernest Alby, was published in 158.

it, a plain stuff, sometimes wholly of; sometimes having the warp of hair of half hair and half silk; sometimes arp and the woof of wool; and somewarp of wool and the woof of thread oriental camlet is made of Angora. Its name is derived from its havinde originally of camels' hair.

ERHOF, FREDERIO, a Moravian bisht Bethlehem, Pa., April 8, 1751. He nerica in 1746 to assist Bishop Spanamissionary to the Indians. He related the Moravian establishments quehanna, when he went to Onondath to the Iroquois. In 4 years he had 9 Indians.

NS, Luis de, the greatest among the a poets, born in Lisbon in 1524, died 79. His father, who descended from Galician family, was a sea-captain, and recked in 1552 on the coast of Goamoens, who inherited an ardent love itement of sea life, and an adventusition generally, commenced his stud-

at the university of Coimbra, and teachers, Diogo de Teive, Vicente and Pedro Nunes, with great conhis genius. He left the university gh literary reputation; but a passion onceived for a lady of the court, Catatayada, blighted his prospects in the nencement of his career. The lady's

family discountenanced his suit; and the king, João III., himself supposed to have been in love with the young lady, banished him from the capital. Catarina could not bear the separation from her lover, and died of a broken heart. He survived her about 30 years, but he lived and died a bachelor. In his despair at her loss, he joined the Portuguese expedition against Morocco, and fought like a lion, but had the misfortune to lose one of his eyes, which disfigured him for life. On his return to Lisbon in 1552, he was again disappointed in his expectations of receiving employment at the court, and proceeded to Goa, where, however, soon after his arrival, he gave offence to the authorities by a satirical poem entitled Disparata na India, in which, among other disparaging allusions, he says of the Portuguese office-holders in India, that Pois honra e proveito nao cabe num eaco: "Honor and self-interest are never found in the same sack." He was banished to Macao, where he received the appointment of procedor dos defunctes (administrator of the effects of the deceased), and the salary connected with this office, though very small, was sufficient for his support. The great discoveries which had disclosed to Portugal the Cape of Good Hope and the key to the Indies, the stirring conflicts with the Moors, the efforts of the missionary to Christianize, while the explorer strove to colonize, and, above all, the general impetus which, after the advent of Gutenberg, Colum-bus, and Luther, electrified the mental atmosphere of Europe, and inspired the muse of the Italian and Spanish poets, exerted a powerful influence upon the ardent imagination of the Lusitanian; and with a mind richly stored with classical learning, with a heart purified by his romantic love for Catarina, and the most enthusiastic admiration for the achievements of his native country, Camoëns resolved to do for Portugal what Homer had done for Greece, and wrote his "Lusiad," or Os Lusiadas, so called after the mythological hero Lusus, who, in company with Ulysses, visited Portugal and founded the city of Lisbon under the name of Ulyssipolis. This great epic was completed by Camoens during his stay in Macao, where a grotto is still pointed out to which the poet frequently resorted to write. In 1561 he received permission to return to Goa. But here one calamity after another befell him. First stripped of every thing he possessed by a shipwreck, he was thrown into prison for debt immediately after his arrival at Goa, and detained there until 1569, when he returned to Lisbon, where the rest of his life was doomed to the most abject poverty. King Sebastian granted him a pension of 15,000 reis, equivalent to the small sum of \$21, a year; and this pittance, miserable as it was, was subsequently withheld. For some time he was supported by a devoted Javanese servant, Antonio, who collected alms for him during the night and nursed him during the day; and afterward he was re-moved to the hospital, where he died. After

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his death he was called the "Apollo Portuguez," "Camões o Grande," a monument was erected to his memory, medals struck in his honor; his "Lusiad" was translated into foreign languages, and warmly praised by both Lope de Vega and Tasso. Tieck founded a novel upon the poet's death (Tod des Dichters), and Portuguese and foreigners flock to the Lusiad grotto at Macao, which has been adorned in a beautiful manner by Mr. Fitzhugh, an English admirer of the poet. Camoens' life, which in many respects resembles that of Cervantes, presents a sad record of the strug-gles of a chivalrio man of genius with uncongenial circumstances. Beside the "Lusiad," he wrote sonnets, which are devoted to love, chiefly to his love for Catarina, to the celebration of virtue, and to friendship. In these sonnets he pays a graceful homage to his teachers, and a warm tribute to his friend Noronha. The sonnets written shortly before his death breathe the purest imagination. The most celebrated of his "Redondhillas" is that suggested to him by his escape from shipwreck. He also wrote Cançãos on the model of Petrarch's Canzoni, odes, sextinas, elegies, stanzas composed in ottava rima, eclogues, and 3 comedies, El Rey Seleuco, founded upon the well-known anecdote of the king who resigns his wife, Stratonice, to his son Antiochus; Filedemo, and Os Amphitryões, his most valuable contribution to the Portuguese stage. His fame, however, rests upon his "Lusiad." Patriotism is the leading sentiment of this national poem, which abounds in picturesque descriptions of storms and scenery, and in pathetic allusions to Portugal's influence in extending the area of Christendom. The most remarkable passages are those referring to the tragic end of Ines de Castro, and to Adamastor, the mythological ruler of the sea, who uses his supreme influence for the purpose of stopping the progress of Vasco da Gama. A copy of the 1st edition of the "Lusiad," which appeared in 1572, is in the possession of Lord Holland's family. A magnificent edition was published by Didot in 1817 for the editor, Souza Botelho. His complete works were edited by Barreto Feio and Monteiro, Hamburg, 1884. The best English translation is that of Mickle. The Spanish translators are Gomez de Tapia, Garzes, and Lamberto Gil. The French translation is by Millié, the German by Donner, the

Italian by Nervi, and the Polish by Przybylski. CAMP, a place of repose for troops, whether for one night or a longer time, and whether in tents, in bivouac, or with any such shelter as may be hastily constructed. Troops are cantoned when distributed among villages, or when placed in huts at the end of a campaign. Barracks are permanent military quarters. Tents were deemed unwholesome by Napoleon, who preferred that the soldier should bivouac, sleeping with his feet toward the fire, and protected from the wind by slight sheds and bowers. Major Sibley, of the American army, has invented a tent which will accommodate 20

cavalry soldiers, with their account sleeping with their feet toward a centre. Bivouso tents have been into the French service since 1837. sist of a tissue of cotton cloth imp caoutchouc, and thus made water-pre man carries a portion of this clot different pieces are rapidly attached by means of clasps. In the selection good water within a convenient dist sential, as is the proximity of woo wood and means of shelter. canals, or navigable streams are furnish the troops with the nece if they are encamped for a long per vicinity of swamps or stagmant wate avoided. The ground to be suitable f must admit of manouvres of troops. possible the cavalry and infantry she tablished on a single line, the former wings, the latter in the centre. The or huts are arranged, as nearly as the the ground admits, in streets perpendic front, and extending from one end of to the other. In arranging a camp, he universal rule can be laid down, but mander must decide according to circ whether to form his army in 1 or 2 upon the relative positions of infantrand artillery. The guards of camps a camp-guard, which serves to keep and discipline, prevent desertions, an alarm; 2, detachments of infantry an denominated pickets, stationed in on the flanks, which intercept rec parties of the enemy, and give timely a hostile approach; and 8, grand outposts, which are large detachment surrounding villages, farm-houses, or works, from which they can watch ments of the enemy. They should far from the camp as to be beyond sec of attack. Immediately after arriground, the number of men to be fur guards and pickets are detailed; the be occupied by them are designated; for distribution of provisions mentio in general, all arrangements made c the interior and exterior police and the camp.—One of the most ancie mentioned in history is that of t ites at their exodus from Egypt. a large square, divided for the differ had in the middle the camp of th with the tabernacle, and a princip entrance, which, with an adjac of was at the same time a for ket-place. But the form, the and the intrenchments of the regula camps of the Hebrews, or their e scarcely be traced.—The camp of u before Troy was close upon the sea shelter their ships drawn upon the lan into separate quarters for the differ and fortified with ramperts fi and the sea, and externally v

hened with wooden towers ues of the besieged. The bravest , as Achilles and Ajax, were postremities. The camp of the Laceas circular, and not without the ations of sentries and videttes .amp varied according to the season ie length of time it was to be occumber of legions, as well as the ground, and other circumstances. f the time of the empire mentions y shape, circular, oblong, &c.; but rm of the Roman camp was quad-place was determined by augurs to the 4 quarters, with the front to ; it was measured with a gnomon; 00 feet was regarded as sufficient

It was divided into an upper separated by a large open space, lines (decumana and cardo), runto W., and from N. to S., and by s. It had 4 gates, the principal of the decuman and the prætorian, ier could pass without leave, under h, and was surrounded with a rated by a space of 200 feet from ip, a ditch, and a mound of earth. trenchments were made by the iselves, who handled the pickaxe e as dexterously as the sword or ney levelled the ground, and fixed which they carried along, around nts into a kind of hedge of irregin the middle of the upper dine pavilion of the general (prato-ig a square of 200 feet; around it lum, the quastorium, or quarters ers of the army, the forum, servnarket and meeting place, and ne legati, those of the tribunes opespective legions, and of the comoreign auxiliary troops. In the n were the tents of the inferior he legions, the Roman horse, the rincipes, the hastati, &c.; and on a companies of foreign horse and y kept apart. The tents were skins, each containing 10 soldiers, inus; the centurions and standardhead of their companies. In the n the 2 divisions, which was called re the platform of the general, for of justice as well as for harangues, sacred images, and the not less ry ensigns. In exceptional cases surrounded with a wall of stones, s even the quarters of the soldiers same material. The whole camp spect of a city; it was the only Romans constructed. Among the ent memorials of the Roman occuitain is the retention of the Latin), as, in whole or part, the name imber of places first occupied by ary posts, as Doncaster, Leicester, lester, Winchester, &c.—The camps

of the barbarous nations of antiquity were often surrounded with a fortification of wagons and carts, as for instance, that of the Cimbri, in their last battle against the Romans (101 B. C.), which camp was so flercely defended, after their defeat, by their wives.—An INTRENORED CAMP is a camp surrounded by defensive works, which serves also as a fortification, and is intended accordingly for prolonged use.

CAMPAGNA, a town of Naples, the see of a bishop, 20 miles E. of Salerno, built in the midst of lofty mountains, and containing a cathedral, churches, convents, a college, &c. Pop.

6,750.

CAMPAGNA DI ROMA, the plain surrounding Rome. It nearly coincides with the ancient province of Latium, and is bounded N. by the Tiber and Teverone, E. by a branch of the Apennines, S. and S. W. by the Mediterranean, and is about 65 m. long by 45 broad. The land is very plainly volcanic, the lakes lying in craters, and some of them, as Lake Regillus, having a regular conical form. The north and north-eastern part of the Campagna, lying on the slopes of the Apennines, is pleasant and salubrious, but the lowlands are afflicted by a malaria which is disastrous to the life and health of laborers. The Campagna includes the wellknown Pontine marshes, which cover a plain some 24 m. long, and from 8 to 10 m. in breadth. These marshes were formed by several small streams, Ufens, Nymphæus, Amasenus, and some others, which, finding no account to long the long to outlet to the sea, spread over the land. As late, however, as 312 B. C., it must have been dry, for the Appian way was then carried over this portion of the Campagna. In the course of 150 years the marshes spread out to their present extent. Attempts were made to drain them by Julius Cassar and by Augustus. A canal was constructed parallel to the Appian way, and Horace speaks of travelling on it in the year 87 B. C. In A. D. 1778 Pius VI. commenced draining the swamp, but with-out much benefit to the health of the inhabitants. Hot sulphur springs are found between Rome and Tivoli. In early days the Campagna was peopled with many small cities. Of the inhabitants, the Albans were the most powerful. When the Romans conquered them. these cities were destroyed. They were afterward repeopled from the capital, but rebelling, were punished, and finally were left entirely desolate. In the time of Diodorus, 44 B. C., there was noticeable a decay and desolation in many parts of Italy. Strabo, in A. D. 25, also spoke of this fact. According to Pliny, the farms in the Campagna belonged to proprietors who resided in the city, and left them to the labor of slaves and the care of overseers. Among these slaves, every thing was done to encourage celibacy. Pliny states that C. Oscilius Claudius Isidorus died, leaving 4,116 of them. The climate of this region around Rome has considerably changed since the palmy days of the city. In the year 490 B. C. there was snow upon the ground for 40 days, and now it is rarely present for so long a time as 2 days. During the winter and early spring the vegetation is rich and flourishing, but in summer the Campagna has a dry and barren appearance. The laborers for the farms are peasants from the hills, strong, hardy men, but many of them are always more or less affected by the malaria. The Campagna is divided judicially into the Comarca di Roma, and Frosinone. The principal modern towns are Tivoli, Velletri, Frascati, Terracina, Ostia, and Palestrina. The great interest felt concerning this plain arises from the situation of Rome, whose ruins lie scattered on every side. Across the desolate Campagna stretch the long lines of the aqueducts, whose broken and now useless arches fitly represent the state to which the "mistress of the world" has fallen.

CAMPAIGN. This term is very often used to denote the military operations which are carried on during a war within a single year; but if these operations take place on 2 or more independent seats of war, it would be scarcely logical to comprise the whole of them under the head of one campaign. Thus what may be loosely called the campaign of 1800 comprises 2 distinct campaigns, conducted each quite independently of the other: the campaign of Italy (Marengo), and the campaign of Germany (Hohenlinden). On the other hand, since the almost total disuse of winter quarters, the end of the year does not al-ways mark the boundary between the close of one distinct series of warlike operations and the commencement of another. There are nowadays many other military and political considerations far more important in war than the change of the seasons. Thus each of the campaigns of 1800 consists of 2 distinct portions: a general armistice extending over the time from July to September divides them, and although the campaign of Germany is brought to a close in Dec. 1800, yet that of Italy continues during the first half of Jan. 1801. Clausewitz justly observes that the campaign of 1812 does evidently not end with Dec. 31 of that year, when the French were still on the Niemen, and in full retreat, but with their arrival behind the Elbe in Feb. 1813, where they again col-lected their forces, the impetus which drove them homeward having ceased. Still, winter remaining always a season during which fatigue and exposure will, in our latitudes, reduce active armies at an excessive rate, a mutual suspension of operations and recruiting of strength very often coincide with that time of the year; and although a campaign, in the strict sense of the word, means a series of warlike operations closely connected together by one strategetical plan and directed toward one strategetical object, campaigns may still in most cases very conveniently be named by the year in which their decisive actions are fought.

CAMPAN, a French town, pop. estimated at from 3,000 to 4,500, in the department of Hautes

Pyrénées, in the valley of the same n valley is bounded by Mont Aigre, tri the river Adour, contains the ancier of Medous, the priory St. Paul, and tl'Esponnes; is celebrated for its p scenery, for its stalactite grotto, a quarries of green, red, and Isabel mar extend along the Adour and the rost to Bagnères de Bigorre. Jean Paul Campanerthal was inspired by the l this valley.

CAMPAN. JEANNE LOUISE GENEST, a French teacher, born Oc in Paris, died March 16, 1822, at Mai was appointed reader to the daughter XV. when only 15, and after her with M. Campan, attached to the Marie Antoinette. She showed grea to her royal mistress during the revtroubles, and barely escaped with h the storming of the Tuileries. Ber her fortune by the revolution, she young ladies' boarding school at St. G 1796, secured the patronage of Mme. nais, afterward the empress Josephin ed the attention and won the esteem leon, by whom she was, in 1806, superintendent of the school he fe Ecouen for the daughters, sisters, an officers killed on the battle-field, or she presided 7 years until it was sup the Bourbons. She was the sist Genest, the French republican minis United States, during the 2d adm of Washington. Her works upon scarcely rise above mediocrity; but he anecdotique, her Correspondance in la reine Hortense, and her Mémoires pritée de Marie Antoinette are full of

CAMPANA, a town of Spain, in pop. nearly 6,000; 87 m. E. N. E. on the river Madre, near its junction Guadalquivir. It has remains of Moo tecture, one parish church, several m and 5 schools.

CAMPANA, a village in the proving rona, in Lombardy. A victory where by the French, under Bonaparte Austrians. Nov. 21, 1796.

Austrians, Nov. 21, 1796.

CAMPANELLA, Tommaso, an Ital opher, born at Stilo in Calabria, Ser died in Paris, March 21, 1639. Wyoung he displayed unusual aplearning, especially languages. I wished to send him to Naples to fit a lawyer, but he followed his own pre and joining the Dominicans, pursued of theology. When but 17 years of at Cosenza, his professor was en; part in a discussion upon philosopa, Franciscans; but being somewhat ur young Campanella in his place, who his audience by the force of his against Aristotle. In 1590, he pub own opinions; the work gained him mirers, but so many enemies that he l

and went successively to Rome, Venice, Florence, Padua, and Bologna. In 1598 he returned h Naples, and went thence to his native place. Reing suspected of joining a conspiracy against the Spanish government, he was seized and put to the rack 7 times, and was finally carried to Spain and imprisoned. In the year 1626 Pope Urban VIII. obtained his extradition from railip IV. of Spain, and he was transferred to the inquisition at Rome. He was set at liberty in 1629. But the Spaniards looked upon him with hostile feelings, and in 1634 he fled to Prance. Landing at Marseilles, Peirese invited him to Aix, where he spent a few months, and thence went to Paris. By the aid of Richelieu he received from Louis XIII. a pension of 1,000 livres. He entered a Dominican convent, where he ended his life. Campanella had takents, but his imagination held too strong a sway over his reasoning powers. He was dis-tinguished rather for undermining other systems than for raising one of his own. His most celebrated works were written during his imprisonment. Among them are the following: Philouplia Rationalis; Universalis Philosophia; Ipologia pro Galilao, 1622, 4to; De Pradesti-untene, Electione, Reprobatione, et Auxiliis Di-tine Gratia, contra Thomistices, Paris, 1686; De Menarchia Hispanica, translated into Eng-**L**, Lond. 1634.

CAMPANHA, a city of Brazil, pop. 6,000, in the province of Minas Geraes, on the left bank of the Palmello, with churches, schools, a hos-

pital, and some other institutions.

OAMPANI, MATTEO AND GIUSEPPE, two brothers, natives of the diocese of Spoleto, Inly, lived in the latter half of the 17th century. Matteo, the elder brother, or Campani alimanis, as he was called, held the curacy of a parsh in Rome. Both of them are known in science as opticians. Matteo was the inventor of illuminated clock dials, and celebrated for being the first to grind object glasses of great focal length—205 palms, or 160 feet focal distance, being the largest. With Campani's object glasses, 2 of the satellites of Saturn were discovered. Campani also made some experiments with triple eye-glasses, to destroy chromatic aberration. The thermometrical irregularities of pendulum vibrations also engaged his sitention. The younger brother, Giuseppe, was also an optician and astronomer, and constructed his own telescopes.

CAMPANIA, a portion of ancient Italy, lying 8. E. of Latium, from which it was separated by the river Liris. Samnium bounded it on the N. the river Liris. Samnium bounded it on the N. and E. Lucania on the S. E., and the Tyrrhenian was the S. and W. The largest river of Campania was the Vulturnus; the smaller streams were the Liris, Clanius, Savo, Sarnus, Silarus, and Sebethus. It also contained several lakes, most of them filling the craters of extinct volcances. The largest of them were Acherusia, Literna, Lucrinus, and Avernus, on the W. of the Monte Nuovo. Within its borders thanks Mount Vesuvius, and there are the burtages.

ied cities of Herculaneum and Pompeii. side these, its principal cities were Baise, Nuceria, Neapolis, Salernum, and Capua, which was founded by the Etruscans, who named it after their leader Capys, a companion of Kness. In the year 420 B. C., it was subjugated by the Samnites; in 848 B. C. it was received into the protection of Rome, but revolted to Hannibal after his victory at Cannes, 216 B.C. It was retaken 211 B.C., and punished by the Romans, its senators being executed, and many of the inhabitants sold into slavery. The first inhabitants of Campania were Ausones and Osci or Opici, subsequently conquered by the Etrus-cans. In the time of the Romans, the Sidicini dwelt in the N. W. near the frontier of Samnium, and the Picentini inhabited the S. E. portion of the country. The region of Campania is decidedly volcanic, and the soil extremely fertile. In some parts crops are harvested 8 times in a year. This fertility, joined with an equable climate, an air mildly tempered by soft sea-breezes, and the most beautiful scenery, gave the title Felix to the land, which it still retains, being now the Campagna Felice of Naples.

OAMPANILE (Ital. compona, a bell), a bell tower, either attached to a church, or an independent edifice. The most remarkable specimens are those at Cremona, Florence, Piss, Bologna, Padua, and Ravenna. The tower at Cremona is 896 feet high, 498 steps leading to the summit. It was begun in 1283, and the bells were cast in 1578. In the 3d story is a very large astronomical clock, built in 1594. The one at Florence was commenced by Giotto in 1834; after his death, the tower was continued by Taddeo Gaddi. It is 275 feet in height, and has 4 stories, of which the 1st and 4th are higher than either of the other 2. On the basement story are 2 ranges of tablets in relief, designed by Giotto, and executed partly by him, and the remainder by Andrea Pisano and him, and the remainder by Andrea risand and Luca della Robbia. Above these are 16 large statues, 4 on each side of the tower. The cost of this campanile was very great, about 1,000 florins for each braccia, which is 2 feet square. The leaning tower of Pisa was begun in 1174 by Bonanus of Pisa, and William of Pisa was begun in 1174 by Bonanus of Pisa, and William of Pisa was begun in 1174 by Bonanus of Pisa, and William of Pisa was begun in 1174 by Bonanus of Pisa was begun in 1174 by Bon of Innspruck. It is 178 feet high, cylindrical in form, and 50 feet in diameter. The summit is reached by 880 steps. The fact which gives it the name by which it is so well known, is that it leans 18 feet from the perpendicular. This fault was manifest before its completion, and was guarded against by extra braces, and an adapta-tion of the stone in the highest portion. The 7 bells on the top, the largest of which weighs 12,000 lbs., are so placed as to counteract by their gravity the leaning of the tower. The Garisenda at Bologna is 158 feet high, and leans 8 feet 6 inches. The Asinelli at the same place is 871 feet in height, and leans 8 feet 6 inches. The Seville cathedral has a came to the same place is 871 feet in height, and leans 8 feet 6 inches. The Seville cathedral has a came to the same place is 871 feet in height, and leans 8 feet 6 inches. The Seville cathedral has a came to the same place is 871 feet in height, and leans 8 feet 6 inches. panile 850 feet high, completed by Guiver the Moor in 1568. This tower is called La Giralda,

from a brazen figure in the top, which weighs a ton and a half, yet turns with the wind.

CAMPANILE, an Italian missionary, born in

CAMPANILE, an Italian missionary, born in 1762 near Naples, died in the latter city, March 2, 1835. At an early age he entered the order of St. Dominic, and was employed in teaching in the different houses of the Dominicans. A desire to preach the gospel to the heathen made him enter the college of the propaganda at Rome, where he learned Arabic. In 1802 he was named prefect of the missions of Mesopotamia and Koordistan, and through his zeal and activity 10 large villages joined the Roman Catholic church. In 1815 he returned to Naples, and was appointed professor of Arabic in the university. In 1818 he published a history of Koordistan and of its different religious sects, containing many details respecting the customs and usages of the country, which are considered highly interesting.

CAMPANUS, JOHANNES, an Italian mathematician, author of the first translation of Euclid that was printed, born at Novara, probably in the 12th century. His translation was from the Arabic, and was printed by Ratdolt at Ven-

ice, in 1482.

CAMPBELL, the name of counties in several of the United States. I. A southern county of Virginia, lying between James river on the N. and Staunton river on the S., and comprising an area of 576 sq. m. It has an uneven surface, and a fertile soil. Productions in 1850, 2,534,730 lbs. of tobacco, 339,267 bushels of corn, 100,500 of wheat, 167,254 of oats, and 2,168 tons of hay. There were a number of mills and factories, 42 churches, and 994 pupils attending public and other schools. Value of real estate in 1856, \$5,692,854. Iron ore is obtained in some places, and granite is abundant. Oak and pine forests cover much of the hilly part of the county. Organized in 1784, and named in honor of Gen. William Campbell, an officer of the revolution. Capital, Campbell Court House. Pop. in 1850, 230,245, of whom 10,866 were slaves. II. A central county of Georgia, with an area of 860 sq. m., intersected by the Chattahoochee river. It has an irregular surface, and embraces several varieties of soil. The soil of the river bottoms consists of a black loam, and yields good crops of grain and cotton. The productions in 1850 amounted to 271,500 bushels of corn, 27,-236 of oats, 44,434 of sweet potatoes, and 3,040 bales of cotton. There were 20 churches, and 450 pupils attending public schools. Gold, iron, and soap-stone are the principal minerals. Value of real estate in 1856, \$1,099,222. The county received its name in honor of Duncan G. Campbell, a member of the Georgia legislature. Capital, Campbellton. Pop. 7,470, of whom 1,637 were slaves. III. A north-eastern county of Tennessee, bordering on Kentucky, drained by several affluents of the Cumberland river, and comprising an area of 450 sq. in. The surface is hilly, and the central part traversed by a ridge of the Cumberland mountains. Large forests occupy a considerable portion of the

land. The productions in 1850 were bushels of corn, 43,889 of oats, 48,4 butter, and 8,167 of wool. The public numbered 650 pupils. Capital Jac Pop. 6,068, of whom 318 were als northern county of Kentucky, with 120 sq. m. It is situated on the bau Ohio, nearly opposite Cincinnati, is on the W. by the Licking river, has an soil, and produced in 1850, 801,125 b corn, 9,988 of wheat, 87,759 of oats, at lbs. of tobacco. The surface consists of tom lands, and gently undulating tract land. The county was organized in 1 named in honor of Col. John Campbe mer member of the state senate. Capit andria. Pop. in 1850, 18,127, of w. were slaves

CAMPBELL, ALEXANDER, founder religious sect called "Disciples of Chri ident of Bethany college, Va., born He was originally a Presbyterian, but v from that church in 1812, and recei tism by immersion the same year. In tion with his father, Thomas Camp formed several congregations, which with a Baptist association, but proteste all human creeds as a bond of union, the Bible alone as the rule of faith a tice. He met with much opposition i sertion of this principle, and in 182; excluded from the fellowship of the churches. His followers now began into a separate body, and in 1838 w posed to number at least 100,000 soul have prevailed especially in the state ginia, Tennessee, and Kentucky. In Campbell founded Bethany college in Va., which has about 150 students. plete history of the reform to which devoted may be found in the "Chr tist and Millennial Harbinger," a edited by him in Bethany.

CAMPBELL, Archibald. See Argy

CAMPBELL, ARTHUR, an Ameri born in 1742, in Augusta co., Va., dien in Knox co., Ky. Enlisting at 15 as in litiaman, he was captured by the around lakes Erie and Michigan, adopt of the chiefs, and humanely treated. Hafter 3 years' captivity, his family has supposed him dead. At the comm of the revolution he espoused the cause, and was successively major, ant-colonel, and colonel in the army, elected to the assembly of his native assisted in the framing of her constitution.

CAMPBELL, Siz Colin, a British born in Glasgow in 1791, entered the service in 1808; served in Portugal an cheren; was wounded on several during the peninsular war; served is with the United States, in 1814 aided, in 1823, in quelling an Demorara; was actively en

CAMPBELL

war of 1842; in the second Punjaub campaign, under Lord Gough, in 1848 and 1849, com-manded a division of infantry at the buttles of Chilianwallah and Goojerat, and at other engreenents; was wounded at the former battle; isted afterward in the pursuit of Dost Mohammed and the occupation of Peshawer; held the command of the troops in that district: undertook, in 1851 and 1852, various successful operations against the turbulent tribes of the adjoining mountain regions; and received, on his return to England, the thanks of the British parliament, and of the East India company, for his services. In 1854, he proceeded to the Crimes, in command of the Highland brigade, which, with the guard, formed the duke of Cambridge's division, which took a conspicuous part in deciding the battle of the Alma, Sept. 14 1854. At Balaklava, on Oct. 25 following, the Russian cavalry were repulsed by "the thia red line" of his Highlanders. On Sept. 8, 1855, after the unsuccessful attack on the Redan, Sir Colin was ordered by Gen. Simpson to renew the attack, which, however, was rendered un-Russians. In 1856, after his return to England, he became inspector-general of infantry, and held this office until the end of June, 1857, when, on the death of Gen. Anson, he proended to India, at 24 hours' notice, to assume the supreme command in Bengal, arriving at Calcutta Aug. 14, 32 days after the issue of his commission, which bore the date of July 13. Considerable additions to the army having begun to arrive in the course of October, Sir Colin hastened to Lucknow, the seat of the sepoy rebellion; reached Benares Oct. 31, crossed the Ganges Nov. 11, and arrived at Alumbagh on the evening of the 12th. After an encounter with a body of 2,000 rebels, he left one of his regiments in garison at that place, and resumed his march on the 14th; was received on his approach toward the pleasure ground of Dilkhoosha by the fire of the enemy; succeeded, however, in routing them, though not without the loss of some brave officers and soldiers, and advancing against Secunderbagh (a walled enclosure carefully loopholed), a narrow breach was effected, enabling the British forces to make terrible havoc among the rebels, 2,000 of whom were killed. On the following day (Nov. 21), the mess-house was taken, the troops bursting into the enclosure round the Motee Mehal (the Pearl Palace), where the rebels made a last stand, and soon a communication was opened with the residency, Permitting the late Sir Henry Havelock and Sir James Outram to welcome their deliverers the same afternoon. Sir Colin, however, recognized at once the impossibility of holding Lucknow in the face of the overwhelming masses of the rebels, but masking his real designs by opening a terrible fire on the Kaiserbagh, he succeeded in dividing the insurgents' attention, and while they were preparing for the anticipated assault, the garrison withdrew during the night of the 22d, through the lines

of pickets. Toward the afternoon of the 24th. Sir Colin reached Alumbagh, where, on the following day, he was joined by the rear-guard under Sir James Outram (Havelock having died Nov. 25), and hastening on toward Cawnpore, arrived at the Pandoo Nuddee, within a few miles from thence, on Nov. 26. Sir Colin came in time to save the beleaguered British from destruction. A force of 14,000 sepoys, with numerous cavalry and 40 pieces of artillery, was threatening an army of but 2,000 Europeans under Gen. Windham. Forced to retire within their intrenchments, the British suffered severely from the fierce assault of the rebels, and were almost entirely at their mercy when, alarmed by the long-continued sounds of firing, Sir Colin Campbell crossed the Ganges, and soon drove the rebel force before the intrenchments, capturing 16 of their guns. His first care was to have the women and children and the wounded sent under safe escort to Allahabad, whence they were forwarded to Calcutta; and turning his attention next to the enemy, he commenced the attack in the forenoon of Dec. 6, shelling them out of the town, falling on them with his infantry, and forcing them to take for safety to the Ganges, whence they reached the other side, on their flight into Oude. According to last accounts (August, 1858), Sir Colin was arduously prosecuting the war in Oude, which, however, has assumed more the character of a guerilla warfare, the army organization of the mutineers having been broken.-Sir Colin, not having had aristocratic family influence to assist him in his career, and having entered the service as an ensign in the 9th regiment of foot, attained to the rank of lieutenant-general only in 1856, after his return from the Crimea, and after a whole life incessantly spent in the service. Having previously been made knight-commander of the bath, he was in the same year rewarded with the grand cross of the bath, with 2 Sardinian orders, and the cross of the French legion of honor; and in 1858 he was promoted to the rank of general, and to the peerage under the title of Baron Olyde of Clydesdale.

CAMPBELL, GEORGE, a Scotch Presbyterian divine, born Dec. 25, 1719, died April 6, 1796. Left an orphan at the age of 9, he was educated at Marischal college, and apprenticed to the law, but afterward devoted himself to theology. The presbytery of Aberdeen licensed him in 1746; he was ordained to the pastoral charge of a parish near Aberdeen in 1750, presented in 1756 to one of the churches in Aberdeen, elected in 1759 regent of Marischal college, and made doctor of divinity by King's college, and chosen in 1771 professor of divinity in Marischal college. He published in 1763 his "Dissertation on Miracles," in reply to Hume, and his "Philosophy of Rhetoric" in 1776. He also published a translation of the Gospels, which increased his literary and theological reputation. His "Lectures on Ecclesiastical History" were posthumous; they were marked with a violent

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feeling of opposition to Episcopacy, and received much censure in the "Anti-Jacobin Review" (1801). On the occasion of his resignation, in 1795, he received a pension of £300 a year from

the government.

CAMPBELL, GEORGE W., an American statesman, born in Tennessee about 1768, died Feb. 17, 1848. Commencing his political career in 1808, he served in the U.S. house of representatives till 1809, in the senate 1811 to 1818, with one year of intermission (1814), during which he was secretary of the treasury. He left the senate in 1818 to become minister plenipotentiary and envoy extraordinary to Russia.

CAMPBELL, JOHN, a political and historical writer, born in Edinburgh, March 8, 1708, died Dec. 28, 1775. He was intended for the law, but became a writer in the varied departments of biography, history, politics, and statistics. Commencing at the age of 28, his literary career ended only with his life. His first publications were anonymous, and appeared in the following order: "The Military History of Prince Eugene and the Duke of Marlborough" (1736), 2 vols.; his contributions to the "Universal History" (1737-'39); "Travels and Adventures of Edward Brown, Esq." (1739), and "Concise History of Spanish America" (1741). In 1742 he began to put his name to his works; the first was the "Lives of the English Admirals," &c. This work was enlarged from 2 to 4 volumes in 1744, and was swelled to 8 by succeeding authors. In 1745 he began his contributions to the Biographia Britannica. In 1750 he published his "Survey of the Present State of Europe," a work which met with considerable success. After the peace of Paris, 1768, he was employed by the British government to write a vindication of it. His last work, "A Political Survey of Great Britain," was pronounced to come altogether short of the expectation raised

CAMPBELL, THE REV. JOHN, a dissenting minister, born in Edinburgh, in 1766, died April 4, 1840. He was apprenticed by his father to a goldsmith and jeweller in Edinburgh, but when about 28 years old he began to give himself to the ministry. His Christian labors and spirit seemed from the beginning to have had a missionary turn. Among his first enterprises was that of undertaking the charge of 24 young Africans who had been brought from Sierra Leone to be instructed in Christianity. took also an active part in the formation of the British and foreign Bible society in 1804. He was ordained the same year pastor of the Kingsland dissenting church, near London. In 1812 he made a journey to South Africa, to inquire into the religious state of the natives, and the prosperity of the missions among them, and repeated the visit in 1818. On his return, each time, he published an account of his travels and observations. In 1828 he founded the mag-

by its title. In 1755 he was appointed his majesty's agent for the province of Georgia,

which office he retained until his death.

azine called the "Teacher's Offerin previously established the "Youth's which he edited for 18 years. He several other works.

OAMPBELL, John, lord, chief je English court of queen's bench, 15, 1781, at Springfield, a village n Fifeshire, Scotland. His father, th George Campbell, was minister for I Cupar. John was the 2d son, and wa at the Scottish university of St. And migrated early in life to London, et student at Lincoln's Inn (1800), and to the bar in 1806. While pur While pur studies, he supported himself by reports, and theatrical criticisms for t "Morning Chronicle." His industry soon brought him a good practice at the law bar; nevertheless he found time reports of the principal cases deci courts of king's bench and com In 1821 he married Mary Eliz eldest daughter of Sir James S ward the first Lord Abinger.—The a prominent place among advocace serviceable member of the whig par itics were ungrateful to Lord Eldon, not till 1827 that he received the of king's counsel. In 1830 he w P. for the borough of Stafford, and Dudley. In November of the latte was appointed solicitor-general by ministry, which office he retained 1834, when he was elevated to the torney-general. He left office with ministry in Nov. 1834, and at the eral election was returned by the cu burgh, which he continued to r his elevation to the peerage. At nation of Sir Robert Peel's minima Sir John Campbell regained the att eralship, and remained in p June, 1841. In the mean u been raised to the peerage with a Baroness Stratheden. In June, 18 appointed lord chancellor of In raised to the peerage as Baron Cam the resignation of the Melbourne he lost his recently acquired o From this period until 1846, his put confined to hearing appeals in the lords, and on the judicial committee council, and acting as one of the les opposition in the upper house. that thus fell to him was devoted pursuits, the fruits of which were p the world in 1846, in the shape of of the Lord Chancellors and Ke Great Seal of England, from the to the reign of George IV.," in London, 1846-'47; republished in Pl The return of the liberal party to 1846 gave him the post of chan-duchy of Lancaster, and a seat in a cabinet. In 1849 he rul ed in "The Lives of the

from the Norman Conquest to the death of Lord Mansfield." A 8d volume, continuing the series down to the death of Chief Justice Tenterden in 1832, appeared in 1857. On the retirement of Lord Denman from the chief justiceship of the queen's bench in March, 1850, Lord Campbell, notwithstanding his great age, accepted that laborious appointment, the duties of which he has discharged and continues to discharge with unflagging industry, up to the present time (1858), together with those attaching to a legal peer in appeal cases, and to a whig leder. Lord Campbell took advantage of the recent great changes in the landed proprietary of Ireland to become a large landowner in the province of Connaught. His intellectual powers are very clear and robust; his manners so plain and even plebeian, as to acquire for him the byname of "plain Jock Campbell," and his capacity for labor, always immense, is but slowly impaired by the increasing weight of years. He has 2 daughters and 4 sons, the Hon. William Frederic, born Oct. 15, 1824, being the eldest son. His speeches at the bar and in the house of commons have been collected and published (1857).

CAMPBELL, SIR NEIL, a British officer, born about 1770, died in Sierra Leone, Aug. 14, 1827. After serving during several campaigus in the West Indies, he was, in 1811, appointed colonel in a regiment of Portuguese in-tentry, and took part in the blockade of Almeida, the siege of Badajoz, and the battle of Salamance. He was subsequently attached to the Russian army to report upon its force and military operations, in which capacity he served till the entry into Paris in 1814. He was appointed by the British government to accom-Pany Napoleon from Fontainebleau to Elba, and during one of his occasional excursions from the island to the adjoining parts of Italy, Napoleon effected his escape. Yet the British ministry did not charge him with lack of vigilance. He subsequently negotiated with Prince Caristi the conditions of the capitulation of Naples to the Anglo-Sicilian forces, and served under the duke of Wellington in Flanders till the 2d entry into Paris. In 1815 he was sent to explore the course of the Niger and to continue the discoveries of Mungo Park. His death was caused by the noxious climate of Sierra Leone, of which place he was appointed governor-general in 1826.

CAMPBELL, SAMUEL, an American officer, born in New Hampshire in 1738, died Sept. 12, 1824. He removed in early life with his father to Cherry Valley, N. Y., where many of his descendants still reside. He took a conspicuous part in the French war, and also in the revolution. He distinguished himself at the battle of Oriskany, under Gen. Herkimer. In 1778, when Cherry Valley was destroyed by Butler and Brant, Campbell shared in the pecuniary losses of the occasion, and himself and entire family, except his eldest son, were taken captives. After the conclusion of the war, he was faithful

to his republican principles, and was a member of the state legislature.

CAMPBELL, THOMAS, a British poet, born in Glasgow, Scotland, July 27, 1777, died in Boulogne, France, June 15, 1844. His father was a cadet of the clan of Campbells in Kirnan, illustrious from the times of Wallace and Bruce. At the age of 13, already an accomplished scholar in Latin and Greek, he entered the university of Glasgow, where he remained for 6 years, partially supporting himself by private teaching. He was a devoted student, excelled particularly in Greek, and Prof. Young used to advert with delight to his poetical translations of the Greek tragedians as the best that any pupil in the university had ever produced. Among his companions he was known also as a wit and satirist, and his alternations from joyousness to extreme pensiveness enlisted their sympathy and love. On leaving the university he spent a year among the mountains of Argyleshire, amid the wild magnificent scenery which had been the home of his feudal ancestors, where he composed several poems, among which was "Love and Madness," which gave which was "Love and Madness," which gave him a local celebrity. From early boyhood he had written verses, and cultivated almost exclusively his taste and imaginative faculty, and he could not now bring himself to adopt any profession. His mind, formed by classical impressions, contemplated with wonder the whirl of innovation and experiment, the wars and philanthrophic ideas of the French revolution, and with an enthusiasm for liberty, which he at that time shared with most youthful minds, he went to Edinburgh to devote himself to literature as a profession. He negotiated with publishers, instructed pupils, was not unknown to Jeffrey, Horner, Brougham, and other young men who were about to launch the "Edinburgh Review," but was chiefly interested and employed in composing the beautiful episodes of the "Pleasures of Hope." This poem was published in 1799, and achieved a success unperalleled, perhaps, by a first effort, in the annals of literature. It captivated all readers by its melodious and polished diction, and by its eloquent utterance of the prevailing generous sen-timents of the time, and introduced the author at once to fame and society. He thus obtained the means to visit the continent, studied Greek several months at Göttingen under Heyne, witnessed from the monastery of St. Jacob the battle of Hohenlinden, which he has described in his letters and in one of the grandest of his poems, and after making brief and irregular rambles, controlled by the exigencies of war, being checked in his attempt to pass into Italy, and chased into Yarmouth by a Danish privateer, repaired in 1801 to London. He soon after directed his course to Edinburgh by sea, and was surprised to learn from the passengers that the author of the "Pleasures of Hope" had been arrested in London for high treason, was confined in the tower, and expected to be executed. In fact, so suspicious was the British government at that time, that it had amplified his association with French officers abroad into a plot, and a warrant was issued for his apprehension as a spy. It was with difficulty that the poet, on arriving at Edinburgh, could satisfy the authorities of his loyalty. During his travels he had composed a few short pieces, among which were his "Exile of Erin," "Lochiel's Warning," and "Ye Mariners of England," but now obtained his livelihood only by fugitive articles for the newspapers and booksellers. poet by choice, but a prose author from necessity, he removed in 1803 to London, and soon after to Sydenham, where for 17 years he devoted himself to fulfilling contracts with publishers, and to composing, in the intermissions of daily toil, the few poems which confirmed and increased the reputation which his first work had procured him. He had a wife, mother, and sisters dependent on him, and amid alternate seasons of energy and lassitude, hope and despondency, composed an elaborate historical notice of Great Britain for the "Edinburgh Encyclopædia," a "History of the Reign of George III.," frequent contributions to the "Star" newspaper, and collected materials for his "Specimens of the British Poets." Upon the accession of the whigs to power in 1806, he received a pension of £200, and in 1809 published his second great poem, "Gertrude of Wyoming," to which were attached several of his finished and powerful lyrics. In 1812 ho lectured on poetry at the royal institution to an illustrious audience, whose approbation he won; in 1814 he visited Paris in company with Mrs. Siddons, where nothing delighted him so much as the masterpieces of ancient art in the Louvre; in 1818 travelled in Germany, and associated with Arndt, the Schlegels, and Humboldt; and on his return to England assumed, on liberal terms, the editorship of Colburn's "New Monthly Magazine," which he retained for 10 years. His poetical labors from this time, with the exception of the "Last Man," which is one of the happiest of his productions, are of little importance. The author of the finest lyrics and perhaps the best didactic poem in the language produced, during his later years, only one or two passages which approached in gracefulness and vigor to his earlier achievements. His "Theodric," published in 1824, was pronounced inferior to his former poems, and his "Pilgrim of Glencoe," which appeared in 1842, was deemed a failure. He was now also interested in other pursuits. He started the project of the London university, which, chiefly through his exertions, was at length successfully established; he was chosen in 1826 lord rector of the university of Glasgow, to which office he was twice reelected; he was severely stricken in 1831 by the capture of Warsaw, and the total defeat of the Poles, the objects of his youthful enthusiasm; and domestic calamities came to complete his desolation. "My wife is dead, my son is mad, and my harp unstrung," was the account which he gave of

himself, and, with his delicate constitution ken, he found himself a prematurely old alone in the world. Yet he remained be the last, composed biographies of Mrs. Side and of Petrarch, travelled in Algeria and wive pleasant poetical sketches of that country, ed Germany again, and in 1848, fr motive of health and economy, r Boulogne, which he resolved to ke un future residence. There he died, after a ing sickness, solaced by the gentle guar of his niece and of his friend and biograph Dr. Beattie. His poems have retained all their original popularity amid every fluctuation taste. Though he chastened his style to simplicity with laborious care, and polished his verses till they accorded with a fastidious Greek taste, yet most of his lyrics and man portions of his two longest poems appeal to popular mind and feeling, and are treasureur the memory like primitive songs and ballads.

CAMPBELL, LORD WILLIAM, the last of the royal governors of South Carolina, died in 177 He was the 3d brother of the duke of Argyl and married a wealthy Carolina lady of Izard family. He was active in fomenti surrectionary movements favorable to the uvamong the border population and the red me Detected in this practice, he was expelled fro the country by the patriots, and took on board a British man-of-war. In t he threatened the city of Charleston, out t guns of Fort Johnson forced him to retr He joined the expedition under Sir Pe ker against the province, and in the at Charleston in 1776 received the wound

which he died.

CAMPBELL, WILLIAM, an officer in American revolution, born in Augusta 1745, killed at the battle of Eutaw Spria S. C., Sept. 8, 1781. He held a captain's comission in the Virginia line, among the earli troops raised in that state. In 1778 be promoted to the rank of lieutenant-colonel the Washington county militia, and soon to that of colonel. After the battles of Kin mountain and of Guilford, in both of which greatly distinguished himself, he was promoby the Virginia legislature to the rank of bri dier-general. He led the Virginia truops at battle of Eutaw, and fell in the shock of charge with the bayonet. In his dying a ments he was told of the defeat of the ener and is said to have uttered the celebrated eja lation of Gen. Wolfe, "I die contented.

CAMPBELLTOWN, a district of Van I men's Land, with a settlement of the on an affluent of the Macquarrie.

CAMPE, JOACHIM HEINRICH, a German ant and publisher, born at Deensen in 1746, died Brunswick, Oct. 22, 1818. He studied the at Helmstadt and at Halle, and in 1773 was pointed chaplain in the Prussian arm. moved at the spectacle of human s he turned his mind to the education or you as the source whence would result the gre

est amelioration of the conditions of life. He neceeded Basedow as principal of the Philanthropinum educational establishment at Desan but soon resigned this position and founded a private school at Hamburg. In 1788, sable health obliged him to live for a time in repose, but in 1787 he was chosen by the government of Brunswick to superintend and reform the schools of that duchy. He became the head of a publishing house there, which issued his numerous works, was afterward conducted by Campe's son-in-law, Mr. Vieweg, and which continues to enjoy a high reputation in Germany under the firm of Friedrich Vieweg und Sola. Campe published a German dictionary, and other works calculated to improve the language. While at Paris in 1789, he published letters in favor of the revolution which attracted much attention. His reputation, however, rests mon his numerous books of travels, and other books of instruction for the young. The immense popularity of his writings may be gathered from the fact that a 57th edition of his Resisson der Jungere, of which translations were made into almost all European languages, was published in 1856, and a 19th edition of his "Discovery of America" in 1858.—August, a hephew of the preceding, born in 1778, died in 1836, became a partner of the famous Hamburg publishing house, under the firm of Hoffmann and Campe, having married the daughter of Hoffmann.—Friedrich, born in 1777, died in 1846, was for some time a member in the firm of his brother August, founded the museum for literature and art in Hamburg, established in 1802 a house in Nuremberg, wrote a book on Albert Durer and a painters' dictionary, officiated as a magistrate, and was one of the founders of the orphan asylum in the same city, and was the first in 1825 to propose the establishment of the publishers' association of Leipsic, of which be became the first president.—JULIUS, a brother of the preceding, born about 1792, spent the carly part of his life in fighting against the French, and assumed in 1823 the conduct of the Publishing house of Hoffmann and Campe, of Hamburg, his brother August having then withdrawn from the firm. Julius Campe was Personal friend of Heine and Borne, and, as the Publisher of their works, became involved in difficulties with the government, which took Borne's writings. In 1848 some of the works which came from Campe's press were stopped by the came from Campe' the authorities, and again in 1855 he subed himself to arrest and to the payment of ne by bringing out Vehse's history of the German courts.

OAMPEACHY, the principal seaport town of recatan in Mexico, on the W. coast of the pensula, in lat. 19° 50′ N. and long. 90° 28′ W.; p. about 15,900. It is entirely surrounded mountains and is enclosed by 4 bastioned walls. Its harbor has a pier 50 yards in length, but on account of the shallowness of the water only the lighter vessels can pass within it, the

others being obliged to anchor outside. coast is ill supplied with water, and the inhabitants are often obliged to bring it from long distances. Agues prevail during the rainy season, but at other times the climate is healthy, and the heat mollified by the land breeze in the morning and the sea breeze in the evening. markets are generally well supplied, but the prices of food are much higher than in other parts of the state. The streets are narrow, crooked, ill-paved, and dirty. The private houses, which are seldom of more than I story, are built altogether of calcareous stone. public edifices are constructed of the same material, but are generally 2 stories high, and are painted and ornamented. The windows are unglazed. The alameda, or public walk, is a pleasant promenade, lined with double rows of orange-trees, and furnished with seats. is a museum containing a fine collection of shells and other objects of natural history, beside many antiquities of Yucatan. It was founded by 2 monks, the brothers Comacho. peachy has 2 fine churches, several convents, a hospital, college, and theatre; but its entire importance is due to its trade in logwood or Campeachy wood, the hamatoxylon Campeachianum, which is found nowhere else in such abundance and perfection. It is exported in logs, which are afterward chipped and used for dyeing. The principal place for cutting it is on the banks of the Rio Champoton, south of the town, and the wood here obtained is sent in large quantities to London, where it commands a higher price than that brought from any other part of the West Indies. Cotton is exported to some extent. Wax is procured in considerable quantities from the wild, stingless bees which abound in the vicinity. The other products are marble, salt, rice, and sugar. No manufacture of any note is carried on except that of cigars. In spite of the shallowness of the harbor, there are ship-building yards in which vessels with 100 feet of keel are constructed, but they can only be floated out by Undermeans of mechanical contrivances. neath the town are subterranean caverns, constructed by the ancient Mayas, and in the neighborhood many interesting ruins.—Campeachy was founded in 1540, and has suffered many reverses. It was sacked by the English in 1659, and nearly destroyed by pirates in 1678 and 1685. It was the centre of hostilities in the insurrection of Yucatan against Mexico in 1842, and successfully resisted a series of attacks by land and sea

OAMPEGGIO, LORENZO, an Italian cardinal, born in Bologna in 1474, died in Rome, July 18, 1589. He was educated for the law, married very young, and upon the death of his wife took holy orders. He was appointed by Leo X. to the government of Parma, and was despatched to Germany to combat the progress of Luther. Upon his return he was made cardinal, and was soon after sent to England to induce that country to join the confederation against the Turks.

His mission failed in its main object, but he was made by Henry VIII. bishop of Salisbury. On his return he was again sent as legate to the diet of Nuremberg, accredited with full but fruitless powers to check or uproot Lutheranism. When Henry VIII. determined upon a divorce from his wife Catharine of Aragon, Cardinal Campeggio was again sent to England to hold a legatine court, in connection with Cardinal Wolsey, in which to judge the matter. The ap-peal of the queen to the pope caused Campeggio to return to Italy, where he assisted at the crowning of Charles V. at Bologna, and upon the death of Pope Clement VII. used his influence successfully in the conclave for the election of Alexander Farnese. Campeggio was the friend of Erasmus, Sadolet, and other learned men of his time; but of his numerous writings only a collection of letters has been published.

CAMPENON, FRANÇOIS NICOLAS VINCENT, a French poet, born in Guadeloupe, March 29, 1772, died Nov. 24, 1843, at Villeneuve-sur-Corbeil, near Paris. During the early events of the revolution he composed a romance in praise of Marie Antoinette, and was compelled to flee to Switzerland; he published in 1795 a fanciful account, in prose and verse, of his journey. After his return to Paris, he published in 1800 his Epitre aux femmes, and soon afterward a didactic poem entitled La maison des champs. Two years later appeared his Enfant prodigue, which had an immense success, and occasioned his nomination and election to the institute of

Paris, to succeed Delille.

CAMPER, PIETER, a Dutch physician and anatomist, born in Leyden, May 11, 1722, died at the Hague, April 7, 1789. The son of a wealthy and refined man, who was on intimate terms with Boerhaave and other eminent persons, he was early encouraged in his studious habits, and applied himself diligently and with much success to different branches of literature and art. He had acquired at the age of 20 considerable skill in the art of drawing. He was instructed in drawing by Moor, and in geometry by Labordes. On entering the university of Ley-den he devoted himself with assiduity to the study of medicine. In 1746 he received his degree of doctor of medicine. Two years later, having lost his parents, he travelled through England, France, and Switzerland, visiting museums and collections of art, making the acquaintance of eminent men in all departments of learning, and competing for the prizes offered by academic and scientific bodies in large cities. In England he remained about a year, during which time he became acquainted with many of the eminent men of science and institutions of that country. During his absence from home, in 1749, he was appointed professor of philosophy, medicine, and surgery at Francker. In 1753 he was named professor of anatomy and surgery at the athenseum of Amsterdam. In 1758 he was appointed to the chair of medicine in the same establishment. In 1761 he resigned these functions to pursue his studies more at

leisure, while residing in the house Lankum, near Francker; and during he was elected a member of the ass the states of the province of Frieslan years later he resumed his professions and was appointed to the chair of 1 surgery, anatomy, and botany at versity of Groningen. In 1773 he this chair, and some time after he wa a member of the state council of the provinces; which dignity he held at of the memorable events of 1786. attached to the party of the stadthou the political measures of the victorio gave him much displeasure and depr spirits. He fell into a state of me which precipitated his death. No 1 more success than Camper during his time. In 1772 he obtained a prize ! academy of sciences of Paris, and an "; in 1776; a prize from the academy of 1779; from that of Lyons in 1773, an Toulouse in 1774. He also obtained pr the societies of Haarlem and Edinbu the academy of surgery. He was a m the academies of Berlin and St. Petersl of the societies of London and Göttin 1785 he was elected foreign associat academy of sciences of Paris, he and brated Boerhaave being the only H who had obtained that honor. In 1761 discovered and described the organs of in fishes, which had only been superfic incorrectly indicated by Geoffroy. It discovered that the hollow bones of b in direct communication with the re organs. Gabbé had already observed t bones in birds contained no marrov surmised that this peculiarity was a of stability; but Camper showed the of the lungs, penetrating into these c the bones, subserved a special purpo dering the body specifically lighter as of rising in the air, and enabling th fly. In 1774 John Hunter made the servation, and described this peculiar anatomy of birds; and hence many Engomists ascribe the discovery to him, wh belongs to Camper. Camper was th show that the ancient anatomical de of the ape apply to a species of oran He was one of the earliest ethnologica who have attempted to illustrate the of the human race. His dissertation subject makes the shape of the skull of classification; and, though more a quiries have thrown fresh light on the his views have the merit of being not inal, but ingenious and acute. In his the natural differences of featu various countries and ages, he ear acteristic form and expression of co from the facial angle. He was the gave a correct description of the os the rhinoceros, the dugong, and many mals of different types belonging to 1

s; giving an impetus to the study re anatomy, which has since once of so much importance. He ad (he astonishing analogies which link whole chain of vertebrated aniapes, quadrupeds, birds, reptiles, s, showing how easily, as he observes, the type of a cow may be metaa quadruped into that of a man."-None of his works are voluminous, but they are exceedingly numerous. Of his Demonstrationes Anatomicopathologica only 2 parts appeared, the one containing the structure and diseases of the human arm, the other the structure and diseases of the pelvis. He published separate and very interesting dissertations on several medical topics, together with a series of memoirs for different learned societies. Among the principal of thee are essays on inoculation for small-pox; on the origin and color of negroes; on the signs of life and death in new-born infants; on infanticide, with a project for the establishment of a foundling hospital; on the causes of infanticide and suicide; on the intromission of air into the lungs of new-born children; on the operation of lithotomy, at 2 different times, according to the celebrated Franco (i. e. on the first day the surgeon makes the incision into the bladder, the patient is then put to bed, and the extraction of the stone is deferred to the \$4,3d, or 4th day), &c.—In 1803 a collection of his works was published at Paris, in 8 vols. 870. with a folio atlas of plates.

CAMPERDUIN, a seacoast village of the Netherlands, in North Holland, 27 miles N. W. of Amsterdam, celebrated for the naval victory gained here, Oct. 11, 1797, by the English fleet under Admiral Duncan, over the Dutch commanded by De Winter. This victory gave to the concept the title of viscount of Camparedown.

conqueror the title of viscount of Camperdown. CAMPHAUSEN, LUDOLF, a Prussian states-man, born Jan. 3, 1803, at Hunshoven, near Air la Chapelle; established himself as a banker in Cologne in 1825, in partnership with his brother; put himself at the head of railway enterprises in Prussia; advocated the principles of free trade; in 1839 was made president of the Cologne chamber of commerce; established in 1841 the Cologne steam-tug company, and was in the same year sent as representative to the diet of the Rhenish provinces, where he became conspicuous. He was a member of the united diet of 1847, and of the Stundeausschuss of 1848. On March 29, 1848, he became prime minister of Prussia, but relinquished his office on une 20 of the same year. He refused to accept the speakership of the Prussian national assembly which was tendered to him, and also refused the overtures made to him by the vicar of the German empire; but accepted the office of Presian ambassador near the Frankfort parliament in which capacity he opposed all meascalculated to impair the preponderance which he claimed for Prussia in the councils of Germany. On Jan. 23, 1849, he proposed the

formation of a national league, the principal object of which was to Prussianize Germany. But when, in April, the accession of Count Branden-burg to the helm of affairs proclaimed the supremacy of the military element in Prussia, Camphausen again tendered his resignation. In his subsequent political career in the Prussian assemblies and Erfurt parliament, he remained faithful to constitutional principles, and when the conferences of Warsaw and Olmutz, in 1851, made it evident that no effort of his could stay the reactionary policy which had resumed its sway in Prussia, he withdrew from politics, and returned to his office in Cologne, where, under the firm of A. and L. Camphausen, he continues in the banking business.—Wilhelm, a painter of battle pieces of the school of Düsseldorf, where he was born Feb. 8, 1818. In order to familiarize himself with the characteristics of battlefields he served . for some time as a volunteer in the army, and his first productions, "Tilly at Breitenfeld," and "Prince Eugene at Belgrade," were successful with the public. On his return to Dusseldorf, he painted "Godfrey de Bouillon at Ascalon," "Puritans watching the enemy," "A Convoy of Prisoners of Cromwell's Camp," now in the gallery of Louis I. of Bavaria, "Storming of an English Castle by the Soldiers of Cromwell," "Charles II. on his Flight from the Battle of Worcester," &c. One of Camphausen's more recent works is "Charles I. at Naseby."

CAMPHENE, CAMPHOGEN (Gr. καμφορας, camphor, γενναω, to produce). These substances, identical in composition, are obtained—the former by rectifying crude spirits or oil of turpentine, by distilling it over chloride of calcium to separate the water that may be present—the latter by decomposing camphor, by distilling it with anhydrous phosphoric acid. Its composition is 10 equivalents of carbon and 8 of hydrogen, O. H. Camphor is its protoxide, and is produced by its union with one equivalent of oxygen. This pure oil of turpentine has been much used for purposes of illumination, and lamps called camphene lamps have been contrived to lessen somewhat the dangers attending the employment of so explosive a substance. It requires for its complete combustion a large supply of air, and when furnished with this under proper conditions in other respects, it gives a brilliant flame, more pleasing to the eye, and more perfectly exhibiting the colors of objects as seen by the light of the sun, than that afforded by the ordinary illuminating agents. If burned in an unsuitable lamp, a considerable portion of the carbon escapes unconsumed, filling the air with sooty flakes. Camphene is a remarkably thin fluid, and is rapidly taken up in the wick by capillary attraction. From its property of combining with the oxygen of air, common to the essential oils, it is apt to soon deteriorate and become of a gummy consistence; for this reason it should be used freshly made. See BURNING FLUID.

CAMPHOR, the name given to different con-

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crete volatile products commonly obtained by distillation from the chipped wood, roots, and leaves of certain aromatic plants, and condensed by sublimation into a solid form. As known in commerce, camphor is procured only from Japan and the islands of Formosa, Sumatra, and Borneo; but one species of the trees which produce it is said to abound in some parts of Chi-In Sumatra and Borneo the product is limited to a narrow range of latitude between the equator and lat. 8° N. Two kinds are known in commerce. The consumption of one of these, however, is monopolized by the Chinese, who, by a mere whim, set a value upon it from 70 to 100 times the price of the other variety. The kind they so highly esteem is the Malay article, the product of a gigantic tree which grows wild on the slopes of the Diri mountains, in Sumatra, and in the territories of the sultanate of Brunai, in Borneo—a tree which attains a height of more than 100 feet, and a diameter of 6 or 7 feet. Siebold describes one which measured 50 feet in circumference. It is known in botanical works as the dryobalonops camphora or aromatica. The camphor is obtained from this tree without employing the process of separation required in procuring the other variety. It is found in concrete masses secreted in longitudinal fissures and crevices in the heart wood, and is extracted by splitting the trunk in pieces and picking out the lumps with a pointed instrument or the nail, when they are small. Some lumps have been found as large as a man's arm, but the product of a large tree does not often reach 20 lbs.; half this amount is a good yield for a middling-sized tree, and in hunting for one many are felled and split up with great labor that furnish no camphor; hence the high price of the article. The Chinese, it is said, pay for it at the rate of \$1,000 to \$1,200 the picul (133 lbs.); or, for a very superior quality, even \$3,000 for 1 cwt., while the Japan article obtained in their ports, and hence known as Chinese camphor, is worth only from \$12 to \$15 the picul. The camphorwood trunks are supposed to be made of the wood of this tree. It answers well for house and ship timbers and articles of furniture, especially such as are intended to contain and preserve clothes. It is very easy to work, splits readily, and is never attacked by the many destructive insects in the East, which will so speedily devour any European woods, and even those of the East, except the teak, the calambuco, and the camphor. young trees produce, instead of the full-formed camphor, a straw-colored fluid, which is called in the East Indies the oil of camphor, and is used as an external application in rheumatic complaints. This is supposed by Dr. Thompson to be the same substance as the solid product, the composition of which he represents by the formula C₁₀H₂O. But the genuine oil of camphor he describes as the product of the same trees which furnish the camphor of European commerce. This is known in this country and Europe as the camphor of Japan or common

camphor; and of this two varieties ed in commerce: one, the Dutch, camphor; and the other, the Chine mosa camphor. The latter is princi duced in the island of Formosa, az carried in junks to Canton. There it in square chests lined with lead, and to the various eastern ports at which it. It is a crude article in dirty gr agglutinated together in lumps, and c ted with many impurities. The tub is obtained in Batavia, whence it is in tubs securely covered with mattir outside tub, and containing 100 lbs of the article. This is in pinkish color coarser and purer in general than the Both varieties are probably obtained same tree, the laurus camphora of or camphora officinarum of Nees 1 beck—an evergreen of considerable sembling the linden tree, and be berry like that of the cinnamon. of the plant possess the odor of and produce this article when cut pieces and distilled. The proces ducted in large kettles of iron, which nished with covers in the form of in which stalks of rice or grain are receiving the camphor sublimations. water is used, and only a moderate he to volatilize this and the camphor The latter condenses upon the straw camphor of commerce is a crude arti requires purification before it is fi The art of refining it was long more Europe by the Venetians, and afte the Dutch; and it is not long that v this country been independent of the our supplies of the pure material. article is introduced together with ab the quantity of quicklime into ves iron, which serve as retorts, and o are placed covers of sheet iron connthe lower vessels by a small aperture. ber of these stills are placed in a l bath, and, after the melting of the within them, kept at a uniform ter that the process may go on quietly. lime serves to retain the moisture, wh otherwise interfere with the conder the pure camphor. This takes place shelf upon which the cone stands, when in excess passing into the loos cones of sheet iron, care being take the hole open. The deposit of can the form of a circular cake an inch or with a hole through the centre.-The tion of camphor is represented by th C₁₀II₄O. Its specific gravity is 0.987 ing point is 288° F.; and it boils at 40 semi-transparent white substance, cr in hexagonal plates, and with a crysts ture; soft, friable, and tough, so that cult to reduce it to powder. When cult to reduce it to powder. with a few drops of alcohol, it is a verized. Its taste is s

ended with a slight feeling of coldodor is strong and fragrant, highly ing, and exceedingly noxious to troubleects. Exposed to the air, it soon disin vapor; in close vessels it sublimes tallizes upon the parts most exposed to L. It is readily inflamed, and burns ch smoke and light. A singular effect d on dropping small pieces of clean upon the surface of pure water. The rotate and move rapidly about, somer several hours. Any greasy matter the water will at once put a stop to Mr. Tomlinson states that he has e same phenomenon in the raspings of eped in sulphuric ether, in sublimated acid, potassium, &c. Camphor is readlved in alcohol, this taking up about its ght of it. One hundred parts, indeed, . 0.806, dissolve 120 of camphor, formcamphorated spirit of the pharmaco-Water, added to the solution, precipis camphor in fine powder. It is soluster only to the extent of about 1 part Chloroform is a powerful solvent of nedicine camphor is made use of inter-

lexternally. In large doses it acts as a, producing convulsions, stupor, and A case is reported of a young child bepoisoned by only 10 grains. Its ac-rucipally upon the brain and nervous Through the brain it is supposed to act e circulation, producing in moderate ental exhibaration, and in larger doses

nd a disposition to sleep. Properly med, it is a sedative, quieting nervous mt. It particularly promotes the healthy the skin, when this is dry and hot in diseases. Externally applied, it proves eneficial in cases of headache and other sins from its anodyne properties. 1 olive oil, or as recently proposed in rm, it forms an excellent liniment.

PHORIC ACID. When camphor is ded by the action of strong nitric acid and times distilled, an acid is obtained of ve name, in fine transparent plates or the composition of which is represented

ormula, C., H,O.+HO. PHUYSEN, DIRK RAFELSK, a Dutch theologian, and poet, born at Gorkum died at Dokkum in 1626. He lost his at an early age, and was left to the care ler brother; who, thinking that he oba Rafelsk an inclination for painting, las a pupil in the studio of an artist. iguished himself by his landscapes,

fore generally of small size, but anima huts, cattle, and human figures, and I with a skill and delicacy to which Dutch painter had attained. His

now very rare, for at 18 years of wandoned the art to devote himself to r, which was the reigning passion of the e embraced the doctrines of Arminius, ared in the persecutions under which

Arminianism then suffered. He was expelled from the curacy of Vleuten which he had previously obtained, became a fugitive from village to village, a prey to suffering and privation, and often regretting the canvas and brush which had erewhile opened to him so pleasant a career. He found now in writing short poems his only relief and consolation. These are generally upon religious subjects, and are character-

ized by a remarkable depth of feeling.

CAMPIAN, EDMUND, an English author and theologian, born in London in 1540, died Dec. 1, 1581. He studied at Oxford, and was ordained as deacon in the English church. Queen Elizabeth visited Oxford in 1566, he was selected to make the oration before her, as formerly while at school he had been chosen to deliver an oration before Queen Mary on her accession. He went from college to Ireland, and while there wrote the history of that country, and connected himself with the Roman Catholie church. His enthusiasm leading him to seek to make proselytes to his new faith, he was seized and imprisoned; but after a short time effected his escape to the Low Countries, and soon after joined the English college of Jesuits at Douay, passed his novitiate as a member of that society, and became distinguished for his piety and learning. At Rome, in 1578, he was admitted a member of the order of Jesuita, after which he resided for a time at Vienna, where he composed a tragedy, which was received with much applause and acted before the emperor; and at Prague, where he taught rhetoric and philosophy for 6 years. Afterward he was sent by Gregory XIII. in company with Father Par-sons on a mission to England, where, on his ar-rival at the boginning of 1581, he challenged the universities and clergy to dispute with him. His efforts were followed by so large a number of conversions as to disquiet the ministry of Elizabeth; and at the instance of Walsingham he was arrested and thrown into the tower upon charge of having excited the people to rebellion, and of holding treasonable correspondence with foreign powers; he was tried, found guilty, condemned to death for high treason, and executed at Tyburn. The insults of the populace attended him to the tower, where torture was fruitless-ly applied to extort from him a confession of treason or a recognition of the supremacy of the English church, and after his death a fragment of his body was sent to each of the principal towns for exposure. Beside his history of Ireland, he compiled a "Universal Chronology," and collections of his letters and several

essays were published after his death.

CAMPINE (Dutch, Kempen, or Kempenland), an extensive arid and sandy tract, forming a part of the provinces of Antwerp and Limburg, a part of Brabant, and a part of Holland. Great efforts have been made to reclaim it, but with only partial success. About 800,000 acres

remain useless.

OAMPLI, a town in the province of Abruzzo Ultra, Naples, is the see of a bishop, and con-

tains a cathedral, an abbey, and 8 collegiate churches. Pop. about 6,000

CAMPO BELLO, an island at the entrance of Passamaquoddy bay, Maine. It is about 8 miles long, and belongs to New Brunswick. Between Head harbor and the main ship channel is a light-house.

CAMPO FORMIO, CAMPIO FORMIO, OF CAM-PO FORMIDO, a village near Udine in the province Friuli of the Austrian dependency of Venice, on the canal of Roja. A treaty of peace between France and Austria was concluded here in 1797.

CAMPO LARGO, a town of Brazil, in the province of Bahia, on the Rio Grande. A primary school was established here in 1832. Pop.

8,000.

CAMPOBASSO, the fortifled capital of the Neapolitan province of Molise; pop. 9,000. It is situated in a fertile district on the ascent of a high mountain, 55 miles N. E. of Naples, possesses a collegiate church, 4 parish churches, 2 colleges, a hospital, an almshouse, and several convents.

CAMPOMANES, PEDRO RODRIGUEZ, count, minister, and director of the academy of history and mathematics founded by Philip V., born in 1723, died in 1802. By his talents he obtained an appointment in the post office, and gained considerable reputation by his treatise "On the Laws of Amortization," in which he advocated the right of the government to restrain the alienation of land in mortmain, which met with violent opposition from the clergy. He wrote also a treatise on the "Encouragement of Popular Industry" (Madrid, 1774), which was followed by one on the "Education and Encouragement of Artisans." These met the approbation of the king, and led to the throwing open of the American trade, the admission of other ports to the exclusive privileges enjoyed by Cadiz, the institution of a national bank, the admission of raw produce duty free, and other important changes in the Spanish commercial system. He filled several public offices, the most important of which was that of president of the roy-al council in 1788. In this capacity he took measures to bring the gypsies and other vagrants into compulsory industry; he alleviated the famine in Madrid, and gave great encouragement to agriculture. His efforts for improvement in the administration of various public departments met with success and gained him enemies, whose machinations ultimately compelled

him to retire from public life.

CAMPOS DOS GOITACAZES, formerly called SAN SALVADOR DOS CAMPOS, a city of Brazil on the Parahiba; pop. about 4,000. It is surrounded by a sugar-producing district, and was constituted a city in 1835.

CAMPSIE FELLS, a range of hills in Stirlingshire, Scotland, reaching from the Forth at Stirling to the Clyde at Dumbarton, and having Loch Lomond on the W. Their extreme length is 25 miles, with an average breadth of 7 or 8; and they rise to a height

of 1,500 feet, having on the 2 sides summit the sources of the Carron and rivers. Near the E. extremity of these the battle-field of Bannockburn.

CAMPUS, in Roman antiquity, a public park, or vacant space near the shows, combats, exercises, and simi Ancient Rome possessed 8 campi. is derived from the ancient Sicilian race-course.—Campus Martius was t celebrated of the campi of ancient Ru outside of the walls of Rome, and c the level ground between the Quirina, ine, and Pincian mounts, and the river received the appellation Martius from consecrated to the god Mars. It was set apart for military exercises and Here the comitia centuriata assembles meeting, and subsequently the comities here stood the villa publica for the u Roman magistrates and the foreign amb who were not permitted to enter the its. It gradually became a suburban ground for the Roman public, and wa with gardens, shady walks, baths, a and theatres. Julius Cæsar built ti halls for the comitia, Agrippa erecus public baths and the Pantheon, A the Egyptian obelisk and his own ma Statilius Taurus the first amphitheatre Under the later emperors the place crowded with public buildings, an quently with private residences also. the former, the most celebrated wer tian's temple of Minerva Chalcidia, toninus's pillar. Under Aurelian, the Martius was enclosed within the c daries. Campo Marzo is the name one of the districts of modern Rom northern part of the old Campus CAMPUS SCELERATUS, the polluted beyond the walls of ancient Rome. - a virgins who had been untrue to the chastity were buried alive.

CAMSINGMOONS, a Chinese seap in Canton province, pop. 5,000. It is a small island called keeow, and ha good harbor, which was formerly mucl to by vessels engaged in the opium t

CAMTOOS, a river of Cape Colony, It rises in the Nieuwveld mountains, course of about 200 miles enters the

CAMUCCINI, VICENZO, an Italian born in Rome about 1775, died ther 1844. His most celebrated works we jects taken from Roman history. An were, the "Infancy of Romulus and Re"Death of Cosar," and the "Death of CAMUS, CHARLES ETIENER LO

mathematician and mechanician, born Aug. 25, 1699, died in Paris, Feb. 2, 1768; was educated at the college of in Paris, afterward pursuing the teacher and examiner in the scho city. He accompan

expedition to Lapland to measure a of the meridian there. His papers in irs of the academy are generally on

subjects, and are of great value.
published a "Course of Mathematics,"
"Elementary Treatise on Arithmetic."
he was nominated perpetual secretary
scademy of architecture, and in 1765
of the royal society of London.

WOOD, a red dye-wood principally imrom the vicinity of Sierra Leone, obir a leguminous tree, called by De uphia nitida. The coloring matter uifficulty imparted to water, cold or Alcohol and alkaline solutions readily it. It is usually kept in the ground

A. the name of 2 ruinous modern towns ne, one about 6 miles N. of Nazareth, only about 3½ miles N. E. of Nazareth. Certain which of these, if either, is the 1 the first miracle of Jesus, as recorded New Testament. Dr. Robinson gives nor to the first-mentioned Cana, now as Cana-el-Jelil. Stanley, in his "Sinai lestine," thinks the claims of the two qually divided.

qually divided.

AAN, that part of the promised land ay between the Mediterranean on the W., dan on the E., the desert of Shur on the S., is on the N., inhabited by the descend-Canaan, the son of Ham. See Palesting.

ADA, the most important province of America. The attempts to explain the ion or the meaning of the name have, most part, been equally unsuccessful atisfactory. Most modern writers who tempted a solution of the enigma have I the explanation of Father Hennepin, at missionary, who accompanied La Salle royage of discovery from Fort Frontenac, of the present city of Kingston, to the

i. According to the story of this we Spaniards were the original discover-Janada; but on landing and finding that mtry did not come up to their expectahey expressed their disappointment by ing. It capa di nada, which Hennetes Cap de rien. Had his ac-

with the Castilian tongue been siliar, he would have been aware of that 2 of the 4 words are not Spanish slian. Several modern writers on the have repeated the error of Hennepin, opted his explanation of the meaning word as the true one. Earlier authorith better means of information, had a more satisfactory explanation of the gical difficulty. To the river St. Lawthe name Canada was originally apand there is respectable authority to this was also the name of the country watered. Lescarbot, the oldest his of Nouvelle France, tells us that the ns and the Indians who dwelt on the of the bay of Chaleur called themselves

Canadaquea, which the French rendered Canadaquois, giving it a certain correspondence with Souriquois and Iroquois. Lescarbot, rejecting the theory of Jacques Cartier, the discoverer of the country, that Canada signifies town, and that of Belle Foret that it is the equivalent of earth, concludes that the true meaning of the word is province or country, and that it is applicable not only to the country but also to the river, which was sometimes called Hochelaga, and sometimes the St. Lawrence; the latter name having been given in consequence of a French navigator entering it on St. Laurent's day. This opinion seems the better founded from the circumstance that the country, on both sides of the St. Lawrence, was called Canada by the Indians, on its first discovery by the French.—In 1885, the limits of Canada were disputed, on the N., the W., and E. The line between the province and New Brunswick has since been settled by commissioners, and confirmed by an act of the imperial parliament. The boundary on the N. and W. is still disputed. On the N. the province is bounded by the uncertain and unestablished line of the Hudson's Bay company's territory. This boundary question is (Aug. 1858) about to be submitted to the judicial committee of the privy council, in England, for decision. The eastern boundary is formed by the gulf of St. Lawrence, and a line drawn from Anse au Sablon, near the extremity of the straits of Belle Isle on the Labrador coast, due N. to lat. 52°. On the S., Canada is bounded by an arbitrary and zig-zag line, which separates it from New Brunswick; by the state of Maine, with a line for the most part equally arbitrary, the only points where any thing like a natural division occurs being a branch of the St. John's river and the ridge which separates the waters of the St. Lawrence from those of the Kennebec; by the states of New Hampshire, Vermont, New York, Pennsylvania, Ohio, Michigan, Wisconsin and Minnesota. Along the whole of the latter part of the southern frontier—except a short distance between Lake Superior and the Mississippi-there are lakes and rivers: Ontario, Eric, Huron, Superior; the Niagara, the Detroit, the St. Clair, the Sault Ste. Marie. All the islands in the rivers Mistouche and Restigouché belong to New Brunswick. The western boundary of the province, commen-cing at the northern limits of Minnesota, runs N. to the southern boundary of the Hudson's Bay company's territory. This boundary was fixed by an imperial statute known as the Quebec act of 1774; and at that time, the source of the Mississippi not having been discovered, it was not known how far the line of water indicated extended N. It is now contended that Canada extends N. of the source of the Mississippi, and that consequently along the intervening space it has no defined western boundary. In such a case practised surveyors think there is no authority for producing the line either due N. from the source of the Mis-

sissippi, or in the direction indicated by the slight curves of the upper portion of the river. The question of boundary to the W. as well as to the N. of Canada requires to be adjudicated upon by competent authority.—Though Canada has formed one united province since 1840, the distinction of Upper and Lower Canada, or Canada West and Canada East, is still kept up, for electoral, judicial, and other purposes. The dividing line between Upper and Lower Canada commences at Point au Baudet on Lake St. Francis, and runs between the counties of Glengary and Prescott, in Upper Canada, and Vaudrenil, in Lower Canada, to the Ottawa; thence along the Ottawa to the Moose river, and thence due N. to the Height of Land. From Anse au Sablon the province extends N. W. to the upper extremity of Lake Eric (which is about 10° further S. than the starting point), about 1,486 miles. From this point the boundary line takes a N. W. direction to above the head of Lake Superior, a distance of 670 miles, making the total approximate length of the southern frontier 2,166 miles. distance from the E. extremity of the province to Quebec is about 738 miles; from Quebec to Montreal, 150 m.; from Montreal to the mouth of the Niagara river, 337 m.; thence to Lake Erie, 25 m.; from the E. end of Lake Erie to the mouth of the river St. Clair, 236 m.; thence to Lake Huron, 80 m.; thence to the E. end of Lake Superior, 320 m.; across Lake Superior to the presumed W. boundary of the province, 270 m. The width of the province, for the reasons already stated, cannot be accurately Where the gulf of St. Lawrence ends and the river commences, has yet to be determined by commissioners for the international purposes of the reciprocity treaty of 1854, by which American citizens are secured in the right of fishing in the gulf. At some points, this noble river, which ranks among the finest in the world, spreads out to a width of 40 miles; at others it contracts to one mile. It has 3 outlets, the principal of which lies between Cape Breton and Newfoundland; the narrowest is the gut of Canso, which divides Cape Breton from Nova Scotia; the 8d, consisting of the straits of Belle Isle, divides the Labrador coast from Newfoundland. This river is navigable for sea-going vessels as far as Montreal, a distance of nearly 600 miles. Above Montreal several extensive rapids occur. They can be descended by the largest steamers which navigate Lake Ontario; but as no force of steam is sufficient for their ascent, it has been necessary to construct canals, near the sides of the river, to overcome them. These canals, with that intended to overcome the falls of Niagara—the Welland—have been constructed at a cost to the province of \$14,000,000, the whole of them having been directly built as government works. By the aid of these canals, and that constructed at the Sault Ste. Marie, between Lakes Huron and Superior, vessels may descend from the head of the

latter lake into the ocean; and as a metter of fact, several vessels have recently gone from Chicago, on Lake Michigan, to Liverpool— Lake Ontario—formerly called Skanadaria in the Iroquois language, meaning beautiful lake -has a length of 180 m., a breadth of 60, and a circumference of 500; an average depth of 500 feet, and an elevation of 234 feet above the level of the sea. Lake Erie, or as the Iroque were accustomed to name it, Tejocharostic has a length of 280 m., a breadth of 63, and a circumference of 700; an average depth of 250 feet, and an elevation of 565 feet above the level of the sea. Lake Huron is partially & vided by the group of Manitoulin islands; one main body of water lying to the S. and another to the N. The N. portion is again divided into E. and W., of which the former contitutes the Georgian bay, with a length of 199 m., a breadth of 50, and an area of about 6,000 sq. m. The N. channel has an area, exclusive of islands, of 1,700 sq. m., making the whole area of this lake 21,000 sq. m. h length from S. to N. is 252 m., its with 190, and its average depth 860 feet. Its devation above the sea is now, according to the measurements of the state engineers of Michig 578 feet, 8 feet more than the Canadian est The modern name of this lake mate makes it. is easily traced to its origin. It took the midname which the French gave to the Yendotser Wyandots, on account of the manner in which they dressed their hair, resembling the here or wild boar. By these Indians it was called Karegnondy. Lake Superior, the largest of the chain, has a length of 860 m., a breadth of 144, a circumference of 1,500, an average depth of 1,000 feet, and an elevation of 627 feet above the level of the sea. The Indian name of this lake was Algona. Lakes Ontario and Erie se connected by the Niagara river; Lakes Erie and Huron are connected by the Detroit rive or strait, and the river and lake St. Clair, the shallow flats of which offer one of the greater impediments to navigation by large ve which are encountered in these waters. Labor Huron and Superior are connected by the Sault Ste. Marie. At this latter point, the L. W. company had a small canal, on the Canals side, for canoes and boats, half a century ap-The height of land at Portage du Prairie, par the source of the Superior, is 871 feet above the level of that lake. Before reaching Lake Winnipeg, there is a fall from this point of 841 feet, so that Lake Winnipeg is 30 feet below the level of Lake Superior.—Over the interior of Canada lakes of smaller size are profusly scattered. A list of some of these, the class tion of which has been determined by the geological survey, may not be out of place. A of lakes stretches across what was formally known as the Colborne district, comprising the counties of Prince Edward, Peterboro, North-umberland, and Victoria. They empty by means of short streams, through the Oton river, Rice lake, and the river Trent, into Lake

Balsam lake, in the township of falls into Cameron's lake; Cameron's, on, into Sturgeon lake; Sturgeon, in and Verulam, into Pigeon lake; in Harvey, into Deer bay; Buckhorn Ennismore, Smith, and Harvey townto Deer bay; Chemung or Mud lake, more and Smith, into Buckhorn lake; ly, in Smith, into Salmon Trout or ke; Stony and Salmon Trout lakes, in and Burleigh, into the Otonabee d Rice lake; the latter lake, which he townships of Monaghan, Alnwick, n, and Otonabee, empties through the ver into Lake Ontario. The waters of rugog, which is situated in the town-Cartwright, are also tributary to Lake through the Otonabee river, which is le from Peterboro to Rice lake and the s below. The highest of this chain of s an elevation of 588 feet, and the low-elevation of 526 above Lake Ontario. years ago the Canadian government ome improvements in this chain of with the view of forming them, by the se of canals, into a navigable link for ing the waters of Lake Ontario with the Georgian bay. The attempt was, r, abandoned; but even now this route, ins of connecting these two great bodies r, has its advocates, in opposition to ho favor the construction of a canal ronto to the Georgian bay, as well as who contend that the natural route is Ittawa and French rivers. The occurother series of lakes, not far distant, o show how exceedingly well watered art of the country in which they are a remark which would be almost true of any other portion of the provor even in the most rugged parts of Lowda, the mountains are frequently cleft s and bear picturesque little lakes upon pes or summits, while springs bubble heir naked heights or scantily covered and silvery waterfalls may be seen breaks in the foliage. The more s of Upper Canada abound in creeks us, even where small lakes are absent. the St. Lawrence, the Ottawa, one of iries, is the largest river in Canada. us embouchure at the upper extremity sland of Montreal, it has a N. W. dior a distance of between 600 and 700 m.; stimates, which aim at precision, make . It drains, in its course, by the aid of es, an area of from 70,000 to 80,000 This valley forms the most extensive ducing region in the province; the being so extensive as to be practically ple. Lumberers had penetrated as stream as Lake Temiscaming, in 1846. its tributaries are separated by a m those of the Saguenay, with which St. Maurice it heads in the height of h divides the waters of the St. Law-

rence from those of Hudson's Bay. Lake de Quinze is supposed to be the common source of these rivers, a supposition which rests mainly on the information and birch bark charts of the Indians. There can be no doubt, however, that the servants of the Hudson's Bay company must be personally in possession of the facts regarding the exact location of the source of the Ottawa. In the first 250 m. from its head waters to Lake Temiscaming, it receives the waters of several tributary streams. Its width is most irregular, and in many of its links the river is lost in lakes through which it runs. In one place, for a length of 40 m., it has an irregular width of from 1 to 10 m.; in another stretch of 50 m., it expands into an average width of 5 or 6 m.; in another link of 30 m., it has a width of from 2 to 10 m.; again, for a distance of 45 m., it has a varying width of from 2 to 12 m. One of its most extensive links, Lake Temiscaming, with a length of 67 m., tapers off from a width of 6 m. to 500 yards. having at another point a width of only 200 yards, and at a third is reduced to the same width by the occurrence of an island. Again, for 17 m., the width is from 1 to 1 mile. Along its course, the Ottawa presents many portages, where the waters contract to a width of 40 or 50 yards, and are precipitated over rocks, sometimes forming beautiful cascades. Below Lake Temiscaming, the Rivière du Moine is its largest tributary; following its course, it has a length of 40 m. from the mouth of the Mattawa, and consists of a chain of lakes connected by short narrow streams. The further extremity of that forming the summit level of the chain, indifferently called Trout or Turtle lake, approaches within 3 m. of Lake Nipissing. The Ottawa has been rendered navigable in stretches, by the construction of canals to overcomo falla or rapida, a considerable distance above Ottawa city (late Bytown). An opinion prevails in Canada that the Ottawa river and the Georgian bay will one day be united, by canalling the narrow strip of land that divides a principal tributary of the Ottawa from Lake Nipissing, and improving the navigation of the Ottawa and French rivers. With this view, the Canadian government has undertaken a survey of the whole line of water. The Gatineau, which empties a few miles below Ottawa city, is one of the largest tributaries of the Ottawa. If the Ottawa is sometimes swelled up in the lakes which it traverses, the French river consists of little else than a continuous chain of long, narrow lakes, rising by gentle elevations one above another, having for connecting links short rapids or falls. Through this lake-encumbered river the waters of Lake Nipissing glide into the Georgian bay, there being a fall of 69 feet in the distance of 59 m. Lake Nipissing, which has fallen 3 feet 9 inches below its ancient level, has an elevation of 647 feet above the level of the sea at Three Rivers, the highest point on the St. Lawrence at which the tide is perceptible. The Upper Trout lake,

a leading tributary of the Ottawa, has an elevation of 25 feet above Lake Nipissing, within 8 m. of which its nearest border is situated. Thus, in order to obtain a navigable passage the whole distance from the outlet of the Otthe whole distance from the outlet of the Ut-tawa to the Georgian bay through Lake Nipissing and the French river, an elevation of 672 feet would have to be overcome in the ascent to the Upper Trout lake, and thence to Georgian bay a fall of 94 feet; making a total lockage of 766 feet.—The French river has 4 known distinct outlets in the N. E. part of Georgian bay, the widest apart of which are separated by a distance of 14 or 15 m., and the Indians allege that there is another to the W. Along its whole length, except about 10 m. of the upper portion near Lake Nipissing, it has 2 channels, separated at some points by an interval of 8 or 4 in. The occurrence of islands in the lake-links of this river often contracts the channel to a few yards' width. From its outlets, the general direction of the river is N.E., but its course is subject to considerable irregularities, being sometimes in the N. channel nearly due W., and at others nearly due S. Both channels are interrupted by rapids and falls, rendering necessary in the ascent of the S. channel 7 portages; the ascent of the N. channel is less difficult, and in the descent only 2 portages are necessary in either channel.-The 3d great navigable river of Canada is the Saguenay, at the entrance of which is the ancient port of Tadousac, which had become noted in Europe before the foundation of Quebec. As it lies further down the St. Lawrence than Quebec, it was, for some time after the discovery of the country, often visited by French vessels, which did not ascend as far as Quebec. The river has an average width of about 4 of a mile, with high precipitous banks presenting, with the tall figures and dim shadows of the succession of mountains which extend as far as the range of vision sweeps, a picture of grand, desolate, and rugged beauty. It is navigable for ships of the line as far as Chicoutimi, a distance of 75 m. At this point, the ebb and flow of the tide are nearly as great as at the confluence of the river with the St. Lawrence. The St. Maurice, which falls into the St. Lawrence on the N., at Three Rivers, has been surveyed a distance of 880 m. It is navigable for a few miles at its mouth; after which the navigation is interrupted as far as Grand Piles, a distance of 44 m. from its embouchure; then there is another navigable stretch of 75 m., on which a steamer runs. Lumbering operations have been carried up this river a distance of 150 m.; and for this purpose its tributaries have been explored and surveyed through an area of over 14,000 sq. in. The valley drained by this river is as large as the whole of Scotland; and it is estimated to contain as much arable land as that country. Extensive slides and booms have been constructed by the government for the convenience of the lumber trade. The Betsiamite or Bersimis river, situated below

the Saguenay, is another large tribut St. Lawrence, flowing from the N.; navigable stream, no larger craft the are found upon its waters. The Rid which falls into Lake Ontario at running in an inverse direction to the rence, from which, near its mouth, it by a narrow strip of land, was made for military purposes, as far as Ottaw the supplementary aid of the Ride The work was undertaken by the Bi ernment, and cost about \$7,500,000 canal has long since fallen into almost disuse; and has recently been convey Canadian government, who would consented to assume the burden of it ance, if they had not received as an a large quantity of valuable ordinance The peninsula of Upper Canada, the watered by a profusion of small stalmost entirely destitute of navigal The Thames, which falls into Lake is navigable for propellers as far as C distance of 80 m. The Grand river, into Lake Erie, has by artificial aids dered navigable for small craft as far ford. Lake Simcoe, marked on old Fr Lac Toronto, lies nearly due N. of To may be said to form the E. limit o insula. It has a length of 40 and a 80 m., with an average depth of 125 divided by a strait from Lake Concl the N., and is connected by means of Severn with Georgian bay. rivers which fall into Lake Huron on the Thessalon, the Missisaga, the Se Spanish, and the White Fish river mouths range from 15 to 30 m. apart 5, the Spanish river is the largest; only one that is navigable, and even capable of floating craft drawing me feet; by such vessels it is navigal The White Fish river consists of little a series of lakes. Its upper waters he vation of 775.55 feet above the sea. koka has 2 outlets, if not more; it t lakes in its course, and has 8 for its ters, which have an elevation of 1,44 above the level of the sea.-The p traversed, in its entire length, by a chain which divides the country int basins, the N. and the S. basin, of former is the more considerable in part of the country, and the less exteriore the W. frontier is approached. T to which the name of the Laurent has been given, runs along the N. St. Lawrence river, near its margin. Labrador coast to Cape Tourment, ne From this point, the range recedes le 60 m. behind Quebec, and 80 m. b treal. Thence, following the line of u for a distance of 150 m. from crosses that river at Lac taking the opposite direction as re the St. Lawrence, a little below

h Lake Ontario discharges its waters into From this point, it runs in a on to the S. E. extremity of dire : then forming the E. shore of that beyond to lat. 47° N.; whence, urection, it passes Lake Superior, uns in a N. W. direction to the Polar sea. range crosses the St. Lawrence at the where it returns to it after crossing the a: and the Thousand Islands, which there former river, may possibly be consid-as so many of its fragments. Between point and Lake Champlain, it comprises Adirondac mountains. On the S. side of St. Lawrence, commencing near the E.

7 at Gaspe, is another range of mounconsiderably broken, running parallel
river, and passing, higher up through
sen mountains of Vermont, into the ge of the Alleghanies, which divide seers of the Ohio from those of the Atlan-. On the river Chatte, one of the peaks has on of 3,768 feet, and a spring bubbles vium a short distance of the summit. moints the mountains rise to an elevation feet, close to the banks of this river. mis point Notre Dame range is distant m., and from the most elevated peak it a wild confusion of mountains cut by brough which the waters of numerous and springs tumble into the St. Lawrence. aurentian series of mountains, on the N. the St. Lawrence, have at some points ation of from 4,000 to 5,000 feet. on is attained between Quebec and Lake woon; but this is at a point where the work, including the Jacques Cartier, are 8,000 but above the level of the St. Lawrence, and in range is much lower. The height waich divides the confluents of the St. lawrence from those of Hudson's bay, is far bre iting a continuous mountain range, I recently supposed. It consists, for of a ridge of table land, on which so of the waters which run N. and S. and overlap one another, sometimes erable distances. At some points the a mave now been ascertained by actual y. At Portage du Prairie, above Lake ior, the elevation is 1,498 feet over the of the sea. The ridge decreases in height The highest point in the peninsula Canada, along the line of the Great railroad, is about 700 feet above Lake A line surveyed on the plateau of shows an elevation of only 200 feet, est point, over Lake Ontario.—Bet valleys which lie to the N. and a of two Laurentian series of mountains, are several transverse valleys, formed by were flowing into the St. Lawrence on the N. such as the Saguenay, the St. Maurice, he Ottawa. The Saguenay, for some 60 3 a walled river, and presents no valley he points of Grand bay and Chicoutimi are i; but with the St. Maurice it is differ-**VOL. IV.—22**

ent.—The rock-formations present in Canada comprise representatives of the azoic and lower palmozoic divisions, with the drift deposit, and some erupted masses of granitic and trappean rocks.—Azoic Formations. These, in an ascending order, comprise the Laurentian and the Huronian rocks of Canadian geologists. The Laurentian series of crystalline rocks constitutes the oldest formation met with in Canada. It consists chiefly of micaceous and hornblendie gneiss, with subordinate strata of compact feldspar, mica, and tale schist, quartzite, crystalline limestone, and delomite. These are considered to be ancient sedimentary beds, rendered crystalline by metamorphic action. They contain various accidental minerals, as garnet, tour-maline, augite, &c., and valuable iron ores. Here and there, intrusive masses of granite oc-cur among the series. The general direction of this formation has been already stated; and it only remains to add that, at a point W. of French river, it is overlaid by the Huronian formation. It appears again on the E. and N. shore of Lake Superior, and stretches far up to the N. and W. It thus occupies by far the larger portion of the province. This formation, having a general N. W. and S. E. direction as already stated, divides the province into two great basins—the S. and the N. basin. These Lanrentian rocks are chiefly of importance in an economic point of view, from the large and valuable beds of iron ore (principally the magnetic oxide) which they contain, more especially in the townships of Belmont, Madoc, and Hull. At McNab on the Ottawa, also, and other places, red iron ore is met with; and among the other economic substances of this formation, we may cite the marbles of Arnprior and Grenville, the large mica plates of the latter locality, and the sulphate of baryta of Lansdowne, Bathurst, and McNab. As a general rule, the districts over which the Laurentian rocks prevail are ill adapted for agricultural occupation. Fertile soils can only be expected to occur in association with the beds of crystalline limestone or decomposing feldspar, belonging to the series. Overlying the Laurentian formation along the N. shore of Lake Huron and many parts of Lake Superior, various slates, sandstones, and con-glomerates occur, with a few bands of limestone, and thick intercalated beds of trap. To these rocks, collectively, Sir William E. Logan has applied the name of the Huronian series. Their entire thickness amounts in places to about 12,000 feet. Numerous trap dikes, beside the intercalated masses of trap already mentioned, traverse these rocks at many localities. The whole for-mation is eminently copper-bearing. Native copper is found in it, about Lake Superior; but the chief metalliferous deposits occur on Lake Huron (Bruce mines, Wallace mines, &c.), and furnish copper pyrites, purple copper pyrites, and sulphide of copper, in great abundance.—

Palacecic Formations. Great Southern Basin. It has been stated above that the principal water-shed or high land of the Laurentian district.

running in a general north-westerly direction, divides the province into 2 great basins, the S. and the N. basin. Sir William E. Logan has shown that the palæozoic rocks of the S. basin admit of being divided naturally into 2 subordinate basins, by an anticlinal axis which runs in a north-easterly direction from Lake Champlain, and strikes the St. Lawrence a little below Quebec. The strata W. of this line offer a remarkable contrast to those on the other or E. side. They are nearly horizontal, and follow one another conformably from the lower to the upper silurian, and from these latter to the Devonian series. In the E basin, on the contrary, the rocks are much disturbed, and are rendered crystalline in many places by metamorphic agency. Beside which, there is a want of conformability between the lower and the upper silurians; and also, as occurring in Gaspé, between the Devonian and the carboniferous strata.—The Western Basin. The rock groups of this basin comprise the lower and upper silurians, and, in the western peninsula, a portion, also, of the Devonian formation. In an ascending order we have, first the Potsdam sandstone, the lowest of the fossiliferous rocks; then the calciferous sand rock; the Chazy limestone; the bird's-eye, Black river, and Trenton limestones; the bituminous slaty strata called the Utica schist; and the series of shales and sandstones, with subordinate limestone beds, termed, collectively, the Hudson river group. These form the lower silurians, developed chiefly along the St. Law-rence, from a short distance below Quebec, around the river Ottawa, and in the country between Lake Ontario and Georgian bay. The Trenton limestone covers the widest area, and is of the most importance. The upper silurians begin with the Medina sandstone. which sweeps from the S. shore of Lake Ontario, in a thin band, by Queenstown, Hamilton, &c., to the W. of Owen sound. This is followed, still further to the W., by the Clinton and Niagara group of shales and limestones. Next comes the Onondaga group, still to the W., with its valuable gypsum deposits. Then follows the conchiferous limestone, occupying a large portion of the N. shore of Lake Erie, and an equally large portion of the shores of Lake Huron. This closes the silurian series. Of the succeeding Devonian rocks one division, that of the Hamilton shales, a series of bituminous slaty rocks, is alone developed to any extent in western Canada. It covers a broad area in the counties of Lambton, Middlesex, Essex, and Kent. Here and there it has been found to underlie small patches of the Chemung and Portage group, so largely developed in the ad-jacent peninsula of Michigan. Most of these rocks yield good building materials. Lithographic stone also occurs in the Chazy limestone, especially around Marmora; and the same division has likewise furnished some good marble. The Trenton limestone has also yielded marble of excellent quality. From the Niagara group

the well-known Thorold c and large quantities of gr into the States, from Ca ., Oneida townships situated up use Onond of rocks. Finally, in use Devo Enniskillen, &c., many petroleum scur, and also some valuable deposits tum.—The Eastern Basin. In the the anticlinal axis already alluded to divisions comprise the Trenton lime Hudson river group, and a series of sandstones and red and green shales, the name of the Sillery group. This not been recognized in the W. port province. In the E. it forms almost line of the S. shore of the St. Lawre succeeded unconformably in Gaspé silurian limestones, followed by an thickness of sandstones and shales be the Devonian formation. On these rocks, also in unconformable stratific about 3,000 feet of coarse sandsto senting the lower portion of the car group. More inland, as in the east ships, many of the beds belonging to son river and Sillery groups have remarkable alterations. They are into micaceous, chloritic, and talco and also into serpentines and various tant economic minerals of this me region comprise chiefly the iron ores and Brome; the 50 feet bed of n titaniferous iron ore of Beauce and the chaomic iron ore of Bolton and argentifarous copper pyrites of Upto gentiferous galena of the Chaudière native gold, diffused over a wide nesite, fine marble, slate, &c., occur district. In this region, likewise, ar ing into the western basin, are mai masses of igneous rock, forming the r mountains of Yamaska, Shefford, Bron Montreal, &c .- The Drift and Allue tions. Thick deposits of clay and boulders or transported masses of gr other rocks cover the formations o eastern and western basins in most : province. These deposits belong to tional period between the close of th and the commencement of the pres They contain some valuable econ stances, chiefly beds of bog iron on Three Rivers district, and in the Norfolk, on Lake Erie; likewise, and peat. The clays of London, To bourg, Kingston, and other places good white bricks.—The Northern B basin, as already stated, lies to the high land or water-shed which tra Laurentian district in a general N. tion. Its geology is still very ober formations known to occur within comprise the Laurentian series, the rocks, and the upper silurians. silurian system has not yet been re

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s the inference of Sir William E. Logan, the high range of Laurentian country, from s coast of Labrador to the Arctic ocean, forms N. limits of the lower silurian sea.—The tal amount of public lands in Upper and Canada, now at the disposal of the gov-; is about 175,000,000 acres, of which over 6,000,000 acres have been surveych of the remainder has been but imcuy explored. The quantity of lands in nands of private individuals is over 84,000,-icres. The crown land department estihe extent of the area drained by the St. scres. The territorial extent of Lower is much greater than that of Upper s, the former comprising 134,412,800 and the latter, within the water-shed of St. Lawrence and the lakes, 77,606,400 These figures, though official, are necesy only an approximation to the truth; for precise accuracy must be impossible so long as the N. boundary of the province is undetermined. The undisposed of surveyed lands of the crown in Lower Canada lie chiefly in the valley of the Saguenay, in the rear of the seigniories, on the Ottawa and its tributaries, and on the S. side of the St. Lawrence, between the settled seignories and the line which divides the province from New Brunswick and the state of Maine. A small portion also remains in that part of the country which is known as the Eastern Townships. The unsold surveyed lands of Upper Canada lie principally in what sometimes called central Canada, in rear of the frontier settlements on Lake Ontario, and between the Ottawa river and the Georgian bay, and N. of Lakes Huron and Superior. The western peninsula, which for a considcable time absorbed almost all the immigration the country received, is now held almost entirely by private individuals. With m excellent soil, well suited to the production of every kind of grain, and growing wheat in great abundance, it presents scarcely any waste, and a very large proportion of it is already under cultivation. It has been justly regarded as the garden of Canada; the good influence of the surrounding bodies of water harmonizing with the natural richness of the vol. The line of settlements extends from the river St. Anne, on the S. side of the St. Lawrence, to the W. extremity of the E. shore of Lake Huron proper. The valley of the St. Lawrence, being most accessible, was naturally first estiled; and until the conquest of the country by the English, nearly a century ago, the settlements of the French were principally confined to the banks of that river; the banks of the Detroit formed almost the only exception. On the St. Lawrence, the subdivision of the land has been carried to as great an extent as in most countries of Europe—to a far greater extent than in England; and the result is that for hundreds of miles, the banks of the river present the appearance of a continuous

village, the bright-tinned spires of the Catholic churches rising above the white houses and glistening in the sun, at regular and not distant intervals. Since the conquest, partly from antipathy of race which shrunk from a contact with the original French colonists, and partly because the lands along Lake Ontario and in the upper peninsula invited settlement by their superior fertility and a less rigorous climate, the new bands of English colonists who followed in the footsteps of Wolfe wended their way westward. These causes have ever since continued to influence the immigrant population; and the result is, that while the western peninsula is all taken up, the fine valley of the St. Maurice, with its 3,500,000 fertile acres, with the exception of the devastations of the lumberer, was, until the last few years, left to its original barbarism. Below Kingston, very little autumn wheat is sown, the climate being unsuited to its production, and spring wheat almost exclusively prevails. Attempts, not entirely unsuccessful, have been made to grow autumn wheat in the valley of the Saguenay, at Chicoutimi; but they prove nothing. On the Esconmains river, below the Saguenay, good crops of all kinds of grain have been raised. Similar experiments are now being made with success, in the county of Chicoutimi, nearly as far N. as Lake St. John. What proportion of the 175,000,000 acres of crown lands yet undisposed of is capable of cultivation, and comes under the term arable, must necessarily be unknown till a much larger portion of it has been surveyed. The N. basin is attracting settlement on the upper Saguenay. The peninsula of Gaspé, which is as large as that of Denmark, and which lies advantageously with respect to The S. Europe, has been much neglected. portions of it are sheltered by the mountains of Notre Dame. S. of this range is an irregular plateau of table land, having an elevation of from 1,000 to 1,500 feet, varying in width from 10 to 80 m. On the N. side of the mountains, the valley on the bank of the St. Lawrence is settled as far as the river St. Anne. At this river the range divides; a branch running to the S. for some distance, and then advancing to the shore at Mont Louis, continues E., its altitude declining till it terminates in Cape Gaspé. The valleys and the slopes of the hills generally present a rich soil, free from stones; but the inequalities of surface form an obstacle, not insurmountable, perhaps, to settlement. The steepness of the hill sides, even where the mountains do not extend, is often such as to put cultivation out of the question. That portion of the W. border of the peninsula which fronts on the county of Bonaventure, presents a surface and soil as favorable for settlement as any other portion of Lower Canada, where public lands are available. Good crops of excellent grain can here be raised at an elevation of 1,000 feet above the level of the sea; and it has been stated on official authority that, with equal cultivation, the produce is 20 per cent.

greater here than in other parts of Lower Canada. Wheat raised in this peninsula was classed high enough, at the Paris exposition in 1855, to obtain honorable mention. The climate, except on the coast, which is exposed to the cold winds and fogs of the gulf, is every way as favorable as at Quebec, and the winter milder. Above the Restigouché, there are about 110 m. of coast unsurveyed. Squatters have spread themselves over 1 of the distance. A considerable proportion of the inhabitants of this peninsula are engaged in fishing; they confine themselves principally to the shore, the deep sea and mackerel fisheries being abandoned to American enterprise.—Of the interior of the county of Tadousac, which extends on the N. bank of the St. Lawrence, from the E. boundary of the province to the Saguenay river, a distance, following the coast line, of about 600 m., but little is known. It covers an area about twice as large as Scotland. Its features are mountainous and rugged; it is watered by large rivers, and in some places bears an abundance of pine timber; the latter fact affording evidence that it is capable of producing grain. Over the greater part of this extensive region, the Esquimaux is supreme. Hunters tell of a hard-wood region bordering on the Saguenay country.—The valley of the river Saguenay covers an area of 27,000 sq. m., and is estimated to contain over 3,500,000 acres of arable-land, lying chiefly in the N. interior basin which has Lake St. John for its centre; it is known as the upper Saguenay. It is protected from the fogs and cold winds of the gulf by the mountains of St. Marguerite and other high lands. To the S. the range of Laurentian mountains, rising in places to an unusual height, renders the country, to the width of from 50 to 80 m., almost valueless, and until the valleys of the rivers were followed, it was almost utterly inaccessible. A practicable line of road has, however, at length been found. Protected by the high mountain ranges, the valleys and table lands enjoy a milder climate than the settlements on the St. Lawrence, 2° further S. On the shores of Lake St. John, the climate is said to be less severe than at Quebec. It is not yet ascertained how far N. in the interior valleys successful cultivation is possible. Almost every description of agricultural produce has been grown in the neighborhood of Lake St. John. The Saguenay, to which attention has of late years been directed by colonization societies in Lower Canada, already produces grain beyond the wants of its population.—Colonization societies form a curious feature in the social and political economy of Lower Canada. They are, in fact, joint stock farming associations, with a share capital, and all the machinery of a directory and general management. There is one at Quebec, another at L'Islet, and a 3d in Kamouraska. That of Quebec has chosen for the scene of its operations the rear part of the county of Mont-magny, on the S. side of the St. Lawrence.

These associations sprung out of the character of the French Canadian ; Accustomed to a regularly organize they have no taste for isolation, and move into the wilderness, which the the greatest reluctance, and not until nal estate has been subjected to the subdivision which will afford a humble subsistence, they wish to carry frame-work of the old society with regular parish, the church, and the p essential constituents.—Between the and Three Rivers very little land haveyed, in the rear of the settled se the bank of the St. Lawrence. The near Quebec contain, on the slopes of rentian range, some good hard-wood deep streams that intersect this ran wide valleys, and there is little allu their banks. Between the St. Mauric treal, the hard-wood land on the slope becomes lighter; in the valle base, sand and clay prevail, and broader alluvial flats along the stre. Cape Chatte to Mitis, on the S. St. Lawrence, no considerable quan cant lands occurs. The reverse is country from the Chaudière and the road to Mitis. Within this stretch tract of country, between the rear o iories on the St. Lawrence, and the boundary of the province, 200 m. from 12 to 40 m. wide. It con 1,000,000 acres of surveyed lands un larger quantity still has yet to be Being cut longitudinally in the cer mountains of Notre Dame, which l scattered and detached groups, c portions of it are rugged and poor, tain summits sometimes rising over above the level of the sea. The best is covered with hard-wood, occurs pressions which intervene between t elevations of the series. The best along the boundary line of the Un To these interior lands 6 leading 1 been made by the government. section of country westward, whi tween the Chaudière and the rivers, in the rear of the seignion St. Lawrence, and which is know Eastern Townships, the mountains Dame again present themselves in the tached and fragmentary shape, bein versely by the valleys formed by dière and the St. Francis rivers. valley of the St. Lawrence, on the about 20 m. wide; and the hilly compresents here and there summits high, has a width of about 30 m. lies a valley, parallel to the great vi St. Lawrence, about 80 m. in wid by the Chaudière and the St. France an advantage over the valley of th rence in point of position, lvi and favored by a protecting

to the N. This section is about the in Lower Canada which an Englishcopulation has occupied. There re-

than 1,000,000 acres of surveyed osed of, and a still less quantity to be A considerable number of squatters e upon the surveyed portion, and of sold or occupied, there is a good

The general character of the gently undulating, except on the me rivers, where there are extensive nferior soil. Some idea of the pic-character of this section of coune obtained from the fact, that from , the summit of Oxford mountain, an elevation of over 4,000 feet above swrence, no less than 18 small lakes n.—The valley of the St. Maurice ly estimated to contain 8,500,000 arable land. Situated on the N. side Lawrence, midway between the cities and Montreal, its position is in many orable, commanding ready communi-u Upper Canada, the United States, and Jp to a very recent period, the value of. erritory was almost entirely unknown, he people and the government. The s flats of the river in some places consoil; but at a distance of 2 or 3 miles, es of heavily timbered land present

In other places the banks of the the most fertile soil. In the track unverman, the farmer has, as usual, and good wheat and other descriprrain have been grown. Above some hes of the river rise fine stretches of . in one place, a settlement of 14 miles sprung up along a road opened by the int. Indeed, until recently, one of the icles to the progress of settlement in made has been the want of roads. In of the district in question, the woods 1 devastated, for a large distance, by lements have within the last few years ned at several points. Large rivers, rnations of alluvial and table land, the f elevations rising to the importance ains, the Laurentian range excepted, iber of which pine forms a large pro-re among the principal features of this valley. The richest soil is to be found uvial banks of the lakes and rivers, s other lower grounds, which occanerge into swamp. There are some ineral springs. In the pine forests, square feet of red and white pine are prepared during a winter. ess has only just commenced, the terring been open to commerce barely 6 he great valley of the Ottawa contains population of not over 120,000 souls. ents have not extended over 80 m. city of Ottawa; and they exist in the n of two to one on the S.W. side of the n the N. E. side a strip from 4 to 6 m.

w land, of good quality, extends 120 m.

above the city of Ottawa. This strip, as well as the islands of Calumet and Allumette, of which the soil is similar in quality, has for the most part passed into the hands of private individuals. Behind and above this strip, the country be-comes hilly and even occasionally mountainous. The exploration into the interior has here been very imperfect, the country being altogether unknown at a distance of 70 m., except on the rivers Du Lievre and Gatineau. It is described as being in many places steep, rocky, and stony, 75 per cent. of it being unfit for cultivation; and whatever there is of good occurs in such detached portions as only to be avail-able for agricultural purposes in connection with the surrounding lumber trade. Up the Gatineau river 140 m., pine becomes scarce and then disappears entirely. Some parts of the upper valley of this river are covered with poplar and beech, alternating with pine; others present nothing but sterile rocks and precipitous The lower valley of the Gatineau, as well as that of the river Dn Lievre, contains excellent agricultural lands. The settlements on the Gatineau will soon extend a distance of 100 m.-The extensive district lying between the Ottawa river on its S. W. side, and the Georgian bay, is the one to which settlement is now chiefly directed. Extending 200 m. above the city of Ottawa, and having a base N. of the frontier settlements of Lake Ontario of equal extent, its width at the upper end is about 100 m. It contains large tracts of fertile land, is not cut by mountains, and produces a great variety of timber. This district has been distinguished into white pine and red pine and hard wood countries, owing to the prevalence, in different places, of those different descriptions of timber. The white pine country lies to the E., and the red pine immediately W. of it. The soil of the red pine country is sandy and poor, gravelly or stony, with a rugged, uneven, and rocky surface. The other division contains a mixture of good and tolerable land, generally fit for agricultural purposes. Excepting where tracts of hard wood land occur at intervals, the red pine country is pronounced, on official authority, unfit for settlement. W. of these two divisions lies the hard wood country. Among the timber which gives its name to this section are interspersed belts of red pine, the white having totally disappeared. This strip extends W. at one point 75 m., and has a length of 130 m. from S. E. to N. W. Between this strip and the Georgian bay lies a belt of from 20 to 80 m. in breadth, of barren soil, frequently terminating in naked rock near the shores of the bay. To the S., near the ridge dividing the waters of the Ottawa from those which flow directly into the St. Lawrence, belts of poor, rugged, stony land, about 20 m. in width and unfit for settlement, occur.—Between Lake Nipissing and Lake Opeongo, about 1 of the land is fit for cultivation; the timber being for the most part hard wood. This whole region of country between the Ottawa river and the Georgian

bay is well watered, and the rivers afford much hydraulic power. Altogether, it is the best district of country E. of Lake Huron for agricultural purposes. A railroad to connect the Ottawa with the Georgian bay has been projected; and the government has granted a wide strip of land, on each side, toward its construction. This grant was made in 1856, but the railroad has not yet been commenced. It is proposed to extend it to Quebec. On the N. and W. of Lake Nipissing, the land is good; but on the French river it is rocky and barren. The timber trade of the Ottawa is immense. During the 9 years from 1848 to 1856 inclusive, 94,500,000 sq. feet of white pine was sent from the upper Ottawa to Quebec; 25,590,000 cubic feet of red pine, which predominates over the white, and 2,286,690 feet of other timber. The whole amount cut during that period would fall little short of 300,000,000 feet. It has been calculated that there is available in the valley of the Ottawa about 43,000,000 tons of such timber as is now taken to market, and about 180,000,000 tons of smaller size. In other words, the existing growth, without making any allowance for additions, would support a trade equal to that now carried on for a century to come.—The westernmost section of the province, comprised within the valley of the St. Lawrence and the lakes, lies on the N. of Lakes Huron and Superior; having a length of 410 m. from the mouth of the French river on the E., To Pigeon river on the W. Its uncertain breadth is estimated at 160 m., and its area is about 84,000 sq. m. Following the coast line, the length is 600 m., of which 150 m. are on Lake Huron and the river Ste. Marie, and 420 on Lake Superior. The N. shore of Lake Superior presents a bold, rugged coast, of which the cliffs and eminences vary from 800 to 1,300 feet in height. It presents great diversity of scenery in these varying heights, which rise close upon the margin of the lake, deep indentations, sheltered coves, and clusters of islands. The harborage presented is ample for every The timber, consisting chiefly of spruce, balsam fir, white birch, poplar, and cedar, is generally of little commercial value. Some of the higher points are bare of trees, and the land available for agricultural purposes is chiefly confined to the flats and valleys at the months of the streams. Between the Batcheewana and Goulais bays and the Missisaga, the country is fine, producing hard wood on the ridges, and presenting in the broad, alternating flats a deep alluvial soil. Among the hard wood, there is a sufficiency of white pine for building purposes; the flats are principally covered with cedar, tamarack, ash, elm, soft maple, and birch, except where small prairies, bearing a luxuriant growth of grass, intervene. It is probable that this section of country will, at no distant day, be settled. The whole country, where it has been surveyed and explored, from Lake Superior to Lake Nipissing, presents, among the rugged and broken portions that in-

tervene, many exiland, well adapted ion the more rugged anu Dro groves of fine pine and indications of mi ւնի ա selves. The gov ey this extensive secuou or a ersed, recomi that commence at we veastward. The fine De C The finess must in the tance occurs from the rear of the vi Marie, bounded on the W. by t wana bay, and on the E. by th river. It is easy of access from La and Huron and the river Ste. Marie able copper mines on the N. shore perior have been almost entirely ne much has yet to be done in the wa tion before the extent of the mican be known. The Indians app some secrets regarding the minpersistently refuse to disclose the vague fear of the consequences of so, as if they were conscious of which the Spaniards inflicted on 1 South and Central America and the islands, in compelling them to | labor of slaves in the gold mines, a similar fate. N. of Lake Huron ti sionally attain an elevation of from feet above the lake. The surfaces are generally rounded, but occ exhibit rugged escarpments with naked rock. The slopes are often valleys wide, the soil of the la r a fine sandy loam or a deep deposi posed vegetable matter, with the blue clay. The valleys are someti by ridges, varying in height from feet. The valley of the Spanish ri important facilities for settlement; being of good quality or bearing a excellent pine, for which a ready be found at Chicago and other sites for the manufacture of tim abundance.—Canada is rich in is a branch of industry which a turned to much account. The o rivers, and the barbarous methon pursued, have done much to re ductiveness of this source of wear the government has devised plans tection of the fisheries, and agents tend them have been appointed. fisheries are hereafter to be lea revenue derived from tl bounties to the deep sea Canadians have hitherto doned to the French and two Atre produce of the fisheries on the C of Lakes Ontario, Erie, and F 1857, a little short of \$500. chiefly taken are trout, se pickerel, and herring. It win of the abundance of wh rio, if we state the f

, that 47,000 of these fish have been one haul, on Wellington beach, in the Prince Edward. The salmon fisher-St. Lawrence and its tributaries have only devastated by netting and on the spawning beds. The Lower superintendent of fisheries estimates er a proper system of protection, the

of Lower Canada can be made y 500,000 a year.—The climate, Bu set to considerable extremes of com, is not unfavorable to the success Itural operations. All the cereals are in the greatest perfection. The sat-growing district is the peninsula · Canada. In Lower Canada the Hesand other enemies of the wheat crop, duced terrible devastation. In the of the present century, Lower Canada 1,000,000 bushels of wheat in excess rn wants; but at the end of the half such a check had been given to the on of this cereal that that section of the was only producing half enough for the tion of its own population. For a periyears the mean summer temperature to was 64.51°, ranging from 63.90° to The mean maximum summer temfor the same period, was 85.26°, from 81.5° to 85.3°. For 7 consecuters the mean fall of snow, at the re, was 57.2 inches; the 2 extremes and 43 inches. The mean winter ure at Toronto, during the months of r, January, and February, is 25° 51'. t lakes produce an ameliorating influthe climate of the Upper Canada peninch they form, as is shown by a comparemperature with other places to which luence does not reach. The temperathe surface water of those lakes, never 1°. is more frequently over 33°, which is ee over the mean temperature at Toect of these waters on the temper-

y be judged from the fact that, on the Ni-

er, the winter temperature does not fall

grees below the freezing point of water.

ec the thermometer occasionally falls w 0 in winter, and in summer rises to

The Laurentian series of mountains wall of protection from the icy winds

's strait, Hudson's bay, and the Po-

The N. valley of Canada is similarly lar sea. sheltered by the height of land which divides the waters of Hudson's bay from those of the St. Lawrence. The cold winds of the gulf of St. Lawrence are broken by the mountains of Notre Dame. In the upper Saguenay the frost does not injure vegetation till the middle of October, and at Chicoutimi it has been found possible to plough as late as Nov. 12. On the Rat river, in the valley of the St. Maurice, the thermometer sometimes falls as low as 40° below 0; but even there the heat of summer causes grain to come easily to perfection. At the Hudson's Bay post on Lake Temiscaming, the temperature at noon, in the months of June, July, and Angust, was found to be 70\frac{2}{3}, 72\frac{1}{3}, 191\frac{2}{3}, in the only year, except one, of which we have any record. In the other year, it was in the same months, 69\frac{2}{3}, 75\frac{2}{3}, 76\frac{2}{3}. In Dec., Jan., and Feb., the mean temperature at noon was and Feb., the mean temperature at noon was 26 1, 12 14, 28 1, in one year, and 19 14, 17 17, 24 1, in the other. This lake is 630 feet above the level of the sea. The peach, though not extensively cultivated, thrives tolerably well in Upper Canada; and the results of some limited efforts prove that grape culture, in the open air, is not an impossible enterprise. The heat of the summer is sufficient to bring the grape to maturity; but the summer is hardly long enough, and the cold of winter is unfavorable to most varieties of the vine. Since the time when the Recollet and the Jesuit missionaries made from the wild grape wine with which to perform the functions of their holy office, but little wine has been made in Canada; and when that was done Canada had wider limits than at present.-The last decennial census was taken in 1851-'9, at which time the population was 1,842,265. The population of Upper Canada was 952,004; of Lower Canada, 890,261. In 1857 the population of Upper Canada was, according to an estimate believed to be accurate, although not official, 1,805,928, and that of Lower Canada 1,220,514, making the entire population of the province 2,526,487.—Agriculture is the chief employment of the population, lumbering next, and ship-building, measured by the value of the products, the 8d most important branch of in-dustry. The relative value of the products exported during the last 8 years, will best show in what channels the industry of the country is employed:

	1855.	1856.	1857.		
the mine	114,980 1 0 1,986,980 16 10	£ s. d. 41,411 18 8 114,056 18 7 2,504,970 15 5 641,014 16 11 3,748,068 17 8 98,407 0 4 10,799 14 4	£ s. d. 71,617 8 0 185,028 6 0 2,932,596 14 2 526,809 19 11 2,220,706 7 0 99,705 4 8 30,280 0 4		
Fotal value of exports	5,925,975 11 11 304,886 5 0 816,258 8 4	7,148,759 16 11 \$303,269 7 6 559,725 0 0	6,016,748 14 8 845,861 0 0 ,889,051 5 4		
Grand total of exports.	7,047,115 5 8.	8,011,754 4 5	6,751,656 0 0		

The great staple product of Upper Canada is wheat, of which the highest average produce in any township was 26 bushels, and the lowest bushels. Esquesing was highest on the list.—The following is a statement of the exports and imports from 1850 to 1857, inclusive:

Yesrs.	Exports.	Imports.
1850	£2,990,428 8,241,180 8,518,998 5,508,057 5,812,827 7,047,115	£4,245,517 5,858,697 5,071,623 7,995,359 10,182,851 9,021,542
1856	8,011,754 6,751,656	10,596,096 9,857,649

—The total number of vessels entered inward from sea at the ports of Quebec, Montreal, Amherst, New Carlisle, Gaspé, and Rimouski was, in 1857, 2,047; in 1856, 1,494; and in 1855, 1,168. The aggregate tonnage of these vessels in 1857 was 748,425, and the number of

men employed, 30,460. Of these vensh, \$64 with an aggregate tonnage of 477,265 test, was from Great Britain; 491, with an aggregate test and of the other Britain produces; 348, with an aggregate tonnage of 41,902 tons, from the United States; 312, with an aggregate tonnage of 119,023 tons, from the united States; 312, with an aggregate tonnage of 119,023 tons, from the entered outward in 1857 was 1,848; in 1864, 1,532; and in 1855, 1,219. A line of seas steamers, subsidized by the Canadian government, runs fortnightly between Liverpool and Montreal, during the summer; Portland beighter western Atlantic port during winter. This line will shortly be a weekly ose, in point of speed, it has beaten the other has. The Leviathan is to run to Portland, Me, in connection with the Grand Trunk railroad of Canada. The following is a statement of the Canadian and American tonnage engaged in the inland navigation between Canada and the United States in 1857:

	13t A	TARD.	OUT	VARD.	TOTALL		
	Canadian,	American.	Canadian,	American.	Inward.	Owner	
SteamSail	1,670,0 32 887,654	2,217,777 260,061	1,625,822 855,745	2,212,770 216,558	8,667,899 647,715	8,541,66 873,96	
Total	2,057,706	2,477,589	1,984,067	2,429,523	4,086,544	1,CEL,MI	
1	NWARD AND	OUTWARD.					
Janadian Steam					•••••	4,081,7	
American Steam	4,430,547 }			••••••	A	4984)	
Add	Inward s	and outward, do. e	f sea-going v	eesels	• • • • • • • • • • • • • • • • • • • •	LONG	
		7	otal		7-	m, 19,464	

The Canadian trade with the United States is greater than with any other country, as the following statement of the course of Canadian trade in 1857 shows:

	Value of Exports			Yelus of Imports,				
Great Britain	218,809 8,201,600	15 	9 5	157,979 6,705 5,056,163	9 0 18 10 14 10			
Total	6,862,604	14	-8	9,537,649	11 9			

In 1851 Canada had only a few miles of railroad; now she has, in round numbers, 2,000
m. This extraordinary railway development
is due mainly to the assistance extended to
these enterprises by the government and municipal corporations. In 1851, an act was passed
by the legislature authorizing municipalities to
incur extra-municipal expenditures for railroad
purposes. Previous to that time, an act had
been passed pledging government aid to any
railroad within the province over a certain
length. It was afterward found necessary to repeal this statute, on the projection of the Grand

Trunk railway, which extends from Part land, in the state of Maine, to Sarnia, on the western frontier of the province. A very large portion of the debt incurred by municipal on the credit of the consolidated munici fund, was for railroad purposes; and the fund, was for ramous property increased in debt and annual expenses for the same purposed that transposition To avoid the expense of the transposit freight at Montreal, a tubular iron bri being constructed across the St. Lawrence, # 3 cost of \$7,500,000. It rests on a series of a ments which are so constructed as to have the solidity of a rock. Those already compl have borne the pressure of the vast me ice which jam against them in the spring with out sustaining the least injury. The leagth of the bridge is 7,000 feet; and the structure will be one of the most extraordinary works ex erected by man. The next most important railroad after the Grand Trunk, which when completed will have a length of 1,026 m., is the Graw Western, which connects the S. bank of the Niagara river, a railway suspension bridge being constructed below the falla, with the western frontier of the province. This road will soon

2 western termini: one at Sarnia, in addito that now in use at Windsor, oppo-Detroit; the diverging point being at m. Prescott, on the St. Lawrence, one stations of the Grand Trunk, is connected Ottawa, the future capital, by a railroad m. in length. From Cobourg to Peterbridging Rice lake in the interval, road 28 m. in length. From Port m another iron arm strikes out from the Trunk to Lindsay, a distance of 41 m. Ontario and the Georgian bay are coned by a railroad 95 m. long, of which the ii are Toronto and Collingwood. The 8d ortant railroad is the Buffalo and Lake which runs from Fort Erie to Goderich; th is 114 m. The London and Port railroad is 24 m. long; the Carillon and lle, 121 m.; the Champlain and St. Law-, from Montreal to Rouse's Point, 48 m.; ralt and Guelph, 4 m.; the Industry Village Rawdon, 10 m; the Montreal and New with from Montreal to Lachine, thence by team ferry to Caughnawaga, and from that wint to Mooer's Junction, 38 m. Several oads have been projected, and some me in course of construction. Among ir are the Brockville and Ottawa, and nd. The most important of the promed railways not yet commenced are the a and Georgian bay, and the Great rn; the route of the latter lying on the of Lake Erie, the proposed termini ou the Miagara and Detroit rivers. undian, Nova Scotian, and New Brunswick vernments are urging the imperial govment to lend assistance to construct an innational railroad connecting all these prov-It is proposed that this international railshould consist of an extension of the Grand me railroad eastward from Riviere du Loup. e of the grounds on which imperial aid is ed is that such a means of communication h the ocean would be requisite in case of war h the United States. The imperial governonce promised some such aid as that now but withdrew in consequence of being re--u, as it considered, from the obligation by a rence of opinion regarding the location of the The system of public education in opera-L in spite of some differences of opinion as the policy of permitting separate Roman holic schools in Upper Canada, has been inded with a very fair share of success. The on schools are under the control of 2 superintendents of education, one for and the other for Lower Canada. The says at state education in Upper Canada e far back; but the present system of coma schools may be said to have had its origin he year 1846. In Upper Canada separate pols for Roman Catholics and negroes are mitted to be established; and the provision he law is wide enough to include other reous denominations. Hitherto these excepal provisions have been made use of exclu-

sively by Roman Catholics. In Lower Canada, where the majority of the population is Roman Catholic, the law makes provision for separate Protestant schools. The Bible is used as a class book in 1,854 out of 8,472 common schools in Upper Canada. The legislature makes a liberal grant annually for common schools; and as the money is distributed on the principle of helping those who help themselves, a very large sum is contributed by the people in the way of voluntary local taxation. In 1856, the amount spent for educational purposes in Lower Canada was £249,301. In Upper Canada the amount spent for common school education alone, in 1857, was £322,524. The amount of the legislative school grant that year was £32,951 for each section of the province. The law made it necessary that an equal sum should be raised by the municipalities to entitle them to this aid and in Upper Canada they raised £27,827 more than the law required. In Lower Canada, also, in 1856, the voluntary assessment exceeded by £23,474 the amount of legislative grant. In Upper Canada each school section annually decides by vote, whether the schools shall be free, or the children in attendance be required to contribute a certain amount by rate-bill. In 1857 only £36,428 was con-tributed by rate-bill on children; and were this amount levied on property all the schools would be absolutely free. As it is, less than one-half of them are free; but the amount contributed by the scholars is, in a very large number of cases, merely nominal. The number of children of children are all the scholars in the scholar ber of children attending school in Upper Canada, in 1857, was 247,484; and as the whole number of children of school age, between the ages of 5 and 16, was 824,888, it follows that there were 77,454 between these ages who were not in attendance at school. large proportion of this number may have been made up of children between the ages of 5 and 7, and 18 and 16, the greater part of whom may hereafter attend, or have attended school in the intermediate years from 7 to 18. In 1856, there were 218,216 children in Lower Canada of school age; and of these 121,755 attended schools within their respective municipalities. The Catholic schools and seminaries of Montreal and Quebec contained nearly 17,000 pupils. The following comparative statement shows the number of educational institutions in Lower Canada, the number of pupils, and the amount of the contributions:

	1558.	1854.	1855.	1856.
Institutions. Pupils Contributions	2,852	2,795	2,869	9,919
	109,284	119,788	127,058	140,141
	£41,462	£59,508	£68,384	£101,601

The attainments of the children attending schools in Lower Canada may be gathered from the following official statement, showing the comparative numbers and proficiency of the pupils in 4 different years, and the principal branches of study:

DANADA OANADA

		at London	1853.	1854.	1855.	1856.
Pupil	s reading	well	27,867	32,861	48,407	46,940
16		well	50,072	47,014	58,033	60,086
14		simple arithm'c.		22,897	30,631	48,859
- 44	44	compound "	12,448	18,078	22,586	28,481
	**	book-keeping			1,976	
	**	geography	12.185	18,826	17,700	30,134
4		history			15,520	
44	.0.	French grammar			23,260	
46	44	English "			9,004	
- 66	. 44	parsing	4,412		16,439	

There were 877 students receiving a professional or university education in Lower Canada in 1856; 2,170 receiving a classical education; 16,898 receiving an academical education; 15,564 receiving a primary and superior education, and 108,404 receiving an elementary education. In the academies of Lower Canada nearly all the teachers, male and female, belong to some religious order; and some of the textbooks are of a devotional cast, as for example, the Devoir du Chrétien, published by the Christian Brothers. In the Upper Canada schools the Irish national series of books is used. In Upper Canada there is 1, and in Lower Canada 8 normal schools for the training of teachers. Attached to these are model schools, where the young teachers learn to apply the knowledge they have obtained to the purpose to which they have come under an obligation to devote their lives. In Lower Canada there are 97 parochial libraries, containing an aggregate of 57,498 vols. Some of the educational institutions of Lower Canada, such as the seminary of St. Sulpice, at Montreal, possess wealthy endowments, which it is just possible may some day excite the cupidity of a legislature, the majority of whose members will be of a hostile faith. An incipient crusade against religious corporations points to such a result as possible. The power to hold real result as possible. estate, and the actual holding of real estate by such corporations, has been conferred to an extent which many look upon as dangerous to the commonwealth. While common schools are supported at the public cost, the higher branches of education are not neglected. At Toronto there is a university—the university of Toronto-endowed with 225,000 acres of public lands. In 1857 and 1858 buildings for this university were erected at a cost of £70,000. There is also a church of England university-Trinity—at Toronto, endowed and supported by private means. There are Laval university, at Quebec, and McGill college, with university powers, Queen's college in Kingston, and Victoria college in Cobourg, both of which possess university powers. There are beside several other smaller colleges, especially in Lower Cana-There are district grammar-schools in de. Upper Canada; but perhaps they are not very efficient. Of these, there were 61 in 1856. Connected with the educational system of this section of the province are free public libraries, established by municipal corporations. 1856 there were 7,558 students at colleges, scademies, and private schools, in Upper Canada. The Canadians have wisely acted to conviction that a system of go rests on popular suffrage needs, i ful operation, a community amou cation is generally diffused. The r system in operation confers local selfment, in its most unstinted form, upon vi towns, cities, townships, and councils, system of public education in operation is lated to qualify the population to make a ri use of the privilege of local self-govers and the municipal council serves a school for some of those who are hereaft take a part in the provincial legislature.—There are 20 daily, 18 tri-weekly, 15 semi-weekly, and 156 weekly journals published in Cases, altogether 209. In politics 57 of them see liberal, 67 reformatory, and 48 conservative. In religion 104 are Protestant, 18 Roman Catle lic, and 37 neutral. The journals are issed in 88 different towns. The circulation of the leaf journals varies from 500 to 1,500, average about 1,000 copies. The principal journals: the "Toronto Globe," the "Heraki" of Most al, the "Witness" of Montreal, the "Atlas" of Toronto, the "Calvinist" of Toronto, the "Leader" of Toronto, the Courrier du Cand of Quebec, and La Minere of Montreal Roma Catholic); there are 5 German journals, one of which is Roman Catholic.—The revenue and expenditure of the government during the 8 years ending with 1857, were as follows:

Years,	Revensi.	Espedies
1850, 1851 1852 1858 1858, 1858, 1854, 1855, 1856, 1857	£704,824 842,184 889,841 1,190,173 1,809,805 1,019,009 1,538,666 2,107,298	\$200,600 \$1,600 \$4,170 \$21,000 \$1,000,714 \$1,100,774

Of the revenue of 1856, over £1,000,000 was derived from customs. The remaining sources of revenue were excise, crown territory, tax abank issues, public works, fines and furfalture. casual revenue, land fee fund, and the ge office.—In 1852, the gross receipts of tolkes the canals was £84,602; in 1853, £95,814; in 186 £82,765; in 1855, £81,172; in 1854, £85, During these years, the average net re exclusive of repairs and other incidental ex es, was only £66,661. The repairs more that absorb the whole receipts. These canels £3,514,000, the interest of which is all £250,000; so that the convenience they is not obtained without a heavy cost to the ince.—The amount of the public debt, direct indirect, is £12,879,295. Of this amount 867,564 was contracted for the direct P of the government, chiefly on accompublic works. Of the remainder, 25 408 was contracted for the purpose of ing railroad enterprises, and £3,211,355 been borrowed by municipal corporati the credit of a common municipal loss out of which, as administrator, the gover

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the government is otherwise or furonsible on account of this fund, is an ined question. £1,500,000 sterling bt is guaranteed by the British governe remainder is raised by the issue of on the credit of the province, gen-

6 per cent., although the premuch they ordinarily sell makes est in reality but little over 41 per the spring of 1534, Jacques Cartier, er, as the ancient French historians a name, a French navigator, under m the king, sailed from St. Malo, with of 61 tons each, and 61 men; at the days he reached Newfoundland, and

the strait of Belle Isle, entered the suce, having made the discovery of Entering the Baie des Chaleur, Carpossession of the country, in the name ereign, in spite of the protestations of the race who were the owners of the large wooden cross was placed on a ng eminence, as if to announce the mission of the discovering nation, in elle France, that was to rise up on this e Atlantic. The other principal navi-se name is connected with Canadian s, is Champlain. Beside the lake ars his name, he discovered the lakes nd Nipissing. When colonization was commenced, it was conducted on a different from that pursued in New The colony was semi-military, semi-The Recollect and the Jesuit missionersed the country in all directions, enedible hardships to secure the conthe Indians. Garrisoned forts were at every prominent point from Florida; and those on the shores of bay were sometimes in the hands ench and sometimes in possession of sh. The French were frequently at the Indians, having for their enemies ois, the most ferocious tribe that dwelt side of the lakes; occupying, in point ty, the same relative position that is did in Hispaniola. For allies the ad the more timid and less warlike who were driven from the peninsula Canada by the Iroquois in 1636, takon St. Joseph's island, where numem perished miserably of famine durwinter. The feudal system, on the the Coutume de Paris, was establishhus a nobility, who generally possessed ut their swords and the land granted as seigniors, sprang up on the virgin he St. Lawrence. The seigniors were concede the lands granted to them, nanded by settlers, on certain condiney were not absolute proprietors; possessed certain rights in the soil and

d to perform certain duties. It was on them to build mills, and on the to patronize these mills; all water

power pertained to them; they had a right to charge a nominal rent, which has generally been stated at 2 sous per arpent; when the consitaires sold their improvements and the rights they had acquired in the lands, a portion of the money went to the seignior. He possessed several other rights of a beneficiary nature, as well as some of a personal kind. This system became ultimately unsuited to the advanced state of society; but it was not till 1854 that the legislature made provision for its abolition, and the commission appointed to determine the respective rights of seigniors and consitaires has not yet completed its labors. In 1629 Quebec fell into the hands of the English. who were led on by 8 refugee French Calvinists, whose sect had been formally excluded from the colony. On March 29, 1632, Canada was restored to its ancient mistress by the treaty of St. Germain-en-Laye. In 1668 one of the most remarkable earthquakes on second occurred in Canada. It commenced on Feb. 5, and continued, with some short intermissions, over 6 months. It changed the entire face of the country, causing mountains and rivers to disappear, and forming lakes where mountains had stood before. The fountains were dried up, and the color of the rivers changed, some of them having their waters tinged with yellow, others with red, those of the St. Lawrence being white as far down as Tadousac. Near Three Rivers 2 mountains are said to have been precipitated into the St. Lawrence, to have changed its course, and to have given the white appearance to the vast body of water which it contained. Near Tadousac the continuity of the motion was least broken, and at that point a storm of ashes is said to have been driven across the St. Lawrence. The tone of portions of the contemporary narrative gives reason to suspect exaggeration, the more especially as not a single colonist was injured, and none of the houses suffered greater damage than the falling of a chimney. In the infancy of the colony the governors, in connection with the intendant, held the military and civil administration in their hands; and in connection with the seigniors, who possessed the right of administering justice in their seigniories, they exercised judicial functions. In time the accumulation of duties rendered it necessary for the governors, of whom there were 8—one at Quebec, another at Three Rivers, and a 8d at Montreal—to perform part of their functions by deputy. Jesuit and other priests became conspicuous in the public service. Afterward, at the instance of the parliament of Paris, which had supreme control in all the affairs of the colony, the French king established the conseil souverain de Québec. Beside acting as a court of appeal when the decisions of the subaltern judges were called in question, the supreme council registered, upon the order of the king, all edicts, ordinances, declarations, letters patent, &c. It was composed at first of the governor, the bishop, 5 councillors appointed by them every year, and

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a king's attorney. The intendant was afterward accorded a place in the supreme council, which had power to hold its sittings at Three Rivers, Montreal, or any other place, as well as Quebec. After the appointment of a bishop of Quebec, serious dissensions broke out between the civil and ecclesiastical authorities, victory sometimes declaring for one side and sometimes for the other. Bishop Laval was powerful enough to procure the recall of a governor, and the appointment of a successor of his own selec-The supreme council, on the other hand, reduced the tithes payable by the Roman Catholics from 13 to 18, at which point they still remain. In 1689 an English fleet, under Admiral Phipps, made an unsuccessful attack upon Quebec, and after receiving considerable damage the fleet had to retire under cover of a dark night. The establishment of the French colony at Detroit, and the discovery of the Mississippi by La Salle, are among the principal events of this part of the history of Canada.

—By the treaty of Utrecht, signed April 11,
1718, Louis XIV. ceded to England Hudson's bay, Newfoundland, and Acadia (Nova Scotia), and renounced all right to the Iroquois country, reserving to France only the valleys of the St. Lawrence and the Mississippi. The terms of the treaty were sufficiently vague to give rise to disputes as to the extent of the territories respectively belonging to each country; and as the ambition of neither country was willing to be confined to the limits which the other wished to assign it, a final struggle for supremacy, extending over a period of 7 years, ended by the cession of Canada to England and of Louisiana to Spain, 1763. The conquered colonists were guaranteed the free exercise of their religion, and the right of the Catholic clergy to continue to receive their accustomed rights and Whether the subsequent confiscation of the Jesuits' estates was a violation of this stipulation is a question that has been much dis-puted. In 1774 the parliament of England passed an act to provide for the government of the province of Quebec, as the new acquisition was then called. By this act the king was empowered to appoint a council of not less than 17 nor more than 23 members, for the government of the colony. Except for public roads or buildings, the council was not empowered to levy taxes, and no ordinance which it might ass concerning religion was to be valid till it had received the express approbation of the king. The criminal law of England, which had previously been extended to the colony, was continued in force. This arrangement continued till 1791, when Canada was, by an act of the imperial parliament, divided into 2 provinces, Upper Canada and Lower Canada. To each a popular assembly and a crown-nominated legislative council were given. The crown was empowered to confer hereditary titles upon residents of the colony. The legis-lature was to meet once every year. The governors, appointed by the crown, might reserve for the pleasure of the severalga on the legislature might pees. Au-given to reserve + of the public l support of a Protestant clergy, the appar-tention being to constitute them endow of church of England rectories. For the pose some 8,400,000 acres were set spart; very few of them were ever actually ap the endowment of rectories, the instruction this effect of the imperial government had been disobeyed; and in 1854 an act of t provincial legislature was passed to devete to whole of these lands to secular purposes. The the idea of establishing a state church in Co da was relinquished. Disputes regarding interpretation of the constitutional act an One party contended that Canada was in session of a transcript of the British coast tion, and that the advisers of the governor matters of state should be responsible to commons house of assembly. The other pa denied the necessity of any accord between executive council and the legislative as The attempt to make the local government sponsible to the popular branch of the leg was not successful till 1841, the year imperial act had been passed to unite the inces under one administration and one lature. The definite establishment of a reble government, in 1841, was effected by a of resolutions passed by the legislative in which the other chamber was not inv to concur. In this simple manner was co mated a revolution which bears some a to that of 1688 in England. But, in 1841, v tory was already achieved for the princi constitutional government, before its declaration by the resolutions of the per The antecedent struggle b chamber. oligarchy and the constitutional principle believed long, fierce, and sanguinary. It was marked by open insurrection in 1837 and 1838. popular complaints which preceded that or break were numerous, but they are all n able to the single circumstance of an irre ble administration. In the rebellion, which Mr. Louis Joseph Papineau for chief in Lou Canada, and Mr. William Lyon Mackenso Upper Canada, a considerable number of Im were lost; some executions, after the fai the enterprise, took place; many who had a implicated in the movement fled for protest to the United States, and several were ille banished by Lord Durham to the island of muda. There were some serious engage between the troops or militia and the and of these the most severe took place at cott, where the rebels had taken refi stone wind-mill, from which they were mately driven by fire being set to commatter in the lower part of the building.

Americans who sympathized with the in took part in the battle. An eye-with formed the writer that he counted 110 bodies on the snow, on the morning a battle. For some weeks the Upper On

had possession of Navy island, situated Niagara river, just above the falls; all pts of the militia, under Sir Allan Macw, to dislodge them, proving fruitless. In 49 a general amnesty was passed. The Canaystem of government now professes to be 1 after that of Great Britain; and alλωμι this is true to a very great extent, it is t impossible to detect points of difference. are 2 legislative chambers, the legislative l and the legislative assembly; a cabwhich generally consists of 10 members, sponsible to the legislature, and liable to 1 by the votes of a hostile majority; a governor-general appointed by the and paid by the Canadians, his salary way over \$31,000 a year. The legislative sembly consists of 130 members, elected one by Upper Canada, and the other half by wer Canada, for a term of 4 years, but liable be dissolved at any time by an exercise of e covernor-general's prerogative, as representof the crown, upon the advice of his Previous to 1856, the legislative ominated exclusively by the crown, 21.1 recommendations being made by the local ive. In that year an act was passed to may the principle of election gradually to this ber, the crown-nominated members rewall their seats for life. A portion of the new ers have already been elected. The numso elected members will ultimately be 48. be members of both houses are paid an indemty, which has for several years been made \$6 day, though fixed by law at \$4, for their exs when in attendance during the session. ions of the legislature have, since 1849, ueu une parliament houses in Montreal were med by a mob infuriated by a measure introd by the government to pay certain losses curred by individuals in the rebellion, been every alternate 4 years in Toronto and In the autumn of 1859, a removal u roronto will take place. A moving capibeing found inconvenient and entailing great lessary expense, and the strength of local es rendering it impossible for the local nure to select any particular city for a nt capital, both houses agreed to an adm 1857, remitting the question to the en for solution. Her majesty selected Ota, which, though by no means a large city, the advantages of a central locality, literstanding with one foot in Upper Canada the other in Lower Canada. Montreal, the est city in the province, Quebec, Toronto, Kingston, all of which had at one time or r been the temporary capital, unsuccessfully d their claims to be constituted the perent seat of the Canadian government. ANADA, a village of New Mexico, a few s N. of Santa Fé. A conflict took place here,

24, 1848, between the insurgents of the itory and the U.S. troops under Col. Price. ANADIAN RIVER rises among the Guada-

mountains, in New Mexico, and after flow-

ing S. for about 200 m. makes a bend to the E., passes through portions of Texas and the Indian territory, and enters Arkanasa river about 500 m. from its mouth. Its total course is 900 m. Although during the dry months it is a small, shallow stream, the melted snows and ice of spring swell its waters until it frequently overflows its banks. It is sometimes called the Rio Colorado, from the slight tinge which colors its waters. The North Fork, or Rio Nutria, is its principal tributary.

Rio Nutria, is its principal tributary.

CANAJOHARIE, a village and township in
Montgomery co., N. Y., on the Mohawk river
and the Erie canal, contains a number of
churches, a bank, and an academy. There
are stone quarries in the vicinity. Pop. of the
township in 1855, 4,022; of the village, 1,500.

CANAL. As commonly employed, this term

signifies an artificial water channel made for the passage of boats through the interior of a country; but it is also applicable to channels made for other purposes, as the canals of the ancient Egyptians, originally designed to supply water for irrigating the lands they cultivated. Some of these afterward came to be used for boats. Canals, too, have been constructed for conveying away water and draining lands; and all aqueducts, for whatever purpose made, are properly canals. Herodotus and Pliny make mention of navigable canals in Asia Minor and Liguria; and the latter describes the canal excavated by Drusus, in the reign of Augustus, from the Rhine to the Yssel, making a new mouth from the Rhine to the sea. Xerxes is said to have constructed a canal across the low isthmus of Athos, and several attempts were made by the Greeks, and afterward under the Roman emperors, to connect the Ionian sea with the archipelago by one across the isthmus of Corinth. The ago by one across the isthmus of Corinth. importance of canals for inland navigation was early appreciated by the Chinese, with whom a complete system of them has long been in operation, crossing their great rivers from N. to S., and combined with these, that extend to remote parts of their wide territory, forming a net-work of water communication that has never been surpassed in any other country. Rivers were diverted into entirely new channels to form them. The great canal, which connects the Pei-ho, or river of Pekin, with the great central stream of Yang-tse-kiang, 500 m. distant, is fed by a considerable river, which at the summit of the canal is turned in either direction to feed it. The canal with the rivers forms a communication, interrupted only by a narrow interval, that extends from Pekin to Canton, a distance of 1,000 m. Unacquainted with locks, they raise or lower their boats from one level to another on inclined planes by the use of cap-stans. A considerable part of this canal—that between the Hoang-ho and the Yang-tse-kiangis supposed to have been constructed about the 7th century. In the 12th century canals were first constructed in the Netherlands, and their perfect adaptation to the flat country of Holland caused them to be rapidly extended through

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this state, till they now connect all its villages, and are used as roads. The city of Amsterdam owes its present commercial prosperity entirely to the facilities afforded by its ship canal of 51 m. in length, which connects the river Y, by a direct channel, with the German ocean. This canal, one of the largest works of the kind in Europe, was constructed between the years 1819 and 1825, at an expense of £850,000. Its dimensions are so great that 2 large merchant vessels or frigates can pass each other. Attention was given at an early day to the subject of canals in the Italian states, and the invention of the canal lock is commonly attributed to 2 of their engineers of the 14th century, though Belidor, in his Architecture hydraulique, gives the credit of the invention to the Dutch. Some writers say that Leonardo da Vinci first used locks on the Milanese canals in 1497, and soon after introduced them into France.—All the countries in Europe had constructed several canals before they were known in Great Britain. In 1755 the duke of Bridgewater brought forward the project of connecting Manchester with Worsley by a canal; and when this had been successfully accomplished, other works of the same kind were built in such numbers, that before the introduction of railroads it was estimated there were over 2,200 m. of navigable canals in England, beside much slack-water navigation upon the rivers made use of in con-

nection with the canals. South of believed there is not a spot in E from water communication. tion of railroads has greatly le 1 1 portance, and though they still counsed for the transportation of heavy their day is evidently regarded as hav and no new enterprises of this cla-longer planned. The same made of the canals of the Uniteu c haps the earliest constructed of these South Hadley and the Montague can undertaken by a company chartered chusetts in 1792. They are short passing the rapids at South Hadley and Montague falls, the former 2 m. in length, lockage of 40 feet, and the latter 8 m., with lockage. In the former there is a cut 40 f deep and 800 feet long in solid rock. The M sex canal, 27 m. in length, connecting 1 harbor with the Merrimac at Chelmsforu, as Lowell, was completed in 1808. The Erica was completed in 1825, at an expense of \$7 000. Its locks, all of stone masonry, w ginally 90 feet long in the clear, and 15 feet w The following table comprises those canals of a United States and Canada of which the has exceeded \$1,000,000 each; it is part of larger table in Wm. J. McAlpine's report to N. Y. legislature in 1858:

NAME	1	9 .		C-1	Width			L	OCEE		li
	STATE.	Length is miles.	008T.	Cost per mile.	face, feet,	Depth,	Langth, fout.	Width,	Number.	Left, feet,	Burning
Erio	New York	363	\$7,143,789	\$19,679	40	4	90	15	84	100	ſ
Champlain		63	1,257,604	19,962			100	44	19	194	1
Chenango		97	2,419,956	24,948					717	1,000	г
entral Division	Penn., public	173	5,307,252	80,677	40	4	90	15	110	671	4
Vestern do		104	8,696,522					**	70	471	1
usquehanna Division		89	1,039,256	26,647				- XX	12	864	ď.
orth Branch	10 64	78	1,096,178	15,01€					8	69	1
orth Brancu Extension	4 4	90	8,528,302	89,20			90	15	29	1894	d
Delaware Division	44 44	60	1,275,715	21,261	40	5	90	11	23	154	1
chuylkill	" private	108	2,500,176	23,145	86	84	80	17	190	610	1
chigh		85	4,455,099	51,208	60	5	100	20	81	1,250	4
nion	48 44	82	*******		86	4	75	64	95	519	
Pelaware and Hudson	N. Y. & Penn.,	108	(2,500,000	28,150	89	4	76	97	***	200	1
Do. do. enlarged		108	6,500,000	60,200	44	6	100	15 (107	958	1
Delaware and Raritan Feeder	New Jersey	43	2,844,108	66,150	75	7	110	24	18	116	1
forris and Essex	и и	101	8,100,000	30,698	82	4			20 locks	1,674	1
Name of the second Delaman		1000	2,750,000	208,708	14374	10	-1704	92	22 planes i	4	
hesapeake and Delaware	Del and Md.	104	10,000,000	52,856		6	100			1222	
hesapeake and Ohio	Maryland	207	4,695,824	15,300		4	90	15	222	600	
bio and Erie	Onto	170	8,750,000	21,067			20	10	153	1,150	
fiamiandy and Beaver		20	1,500,000	19,722	111	***	90	15	102	191	
ames River and Kanawha	***********	10	5,020,050		40	2.5	100	15	2.15	1.000	: 1
ames Elver and Kanawaa	Virginia	379	28.7	34,150		4	100		300	1,916	1
Vabash and Erie	Indiana		8,057,120	88,968	45 (81	**	**	444	200	
Do. do.	******	700					**	1000	814	***	
llinois and Michigan	littnois	102	8,654.337	84,846		6	125	65.	2	20	
elland			7,000,000	194,444		10	150	264 45	27	846 200	
t. Lawrence			1,000,000	100,000		10	200		6 7		
ornwall			2,000,000	166,666	150	10	200	55	1	48	
leauharnois			1,500,000	136,863	190	10	200	45		42	
achine	*******	84	2,000,000	235,984	120	10	200	55	5	45	ě

The Erie canal as enlarged will measure in width at level of water 70 feet, at bottom 42 feet; depth of water 7 feet, width of tow path 14 feet. As will be observed in the preceding table, the dimensions of canals are very variable, according to the kind and amount of transportation for which they are intended to provide. Those of

Canada are built to open a communication tween the great lakes and the ocean; and by me of them it is practicable for vessels *o c from Chicago, at the head of Lake direct for Liverpool. The Eric ware and Hudson are examples us ing of too small dimensions for th CANAL 845

The latter, with a capacity for boats transported freight at a cost of \$1 r 108 miles. The engineer of the R. F. Lord, estimated that, enlarged city of boats of 100 tons, the charge sduced to 65c., or 5 6 mills per ton o the capacity of boats of 116 tons, 5 mills per ton per mile; and of 6 tons, to 50c., or 4 mills per ton The enlargement to the greatest med was commenced in 1848, and ost of transportation in boats of 115 sustains the correctness of the esting.—The channel excavated for a rmed with the two sides sloping at This angle varies with the 1e soil. In this country the base of commonly exceeds the height in on of 5 to 4 or 3 to 2; and then, to , banks wasting away by the wash r, they are faced near the top with breadth of the canal at bottom is least twice that of the boats upon ecuring sufficient room for passing. should be at least one foot greater aught of water of the loaded boats. th, built upon one side, is about 2 feet level of the water, and 8 to 12 feet water that falls upon this should ard, and not into the canal, and for his a ditch is sometimes constructed he towing path, and another outside osite bank. Where the soil is not ne bottoms and sides require to be h clay tempered and well mixed with avel. This is put on in successive or 8 inches each, as the under layers layer, however, should be made to the one it is laid upon, by working roughen its surface. The puddling res repairs; and these in the colder ie country are conveniently made ater is let out of the canal for the iddling serves to prevent the burrowals under the canal, by which much often produced; a small hole rapidly large one by the flow of the water

In retentive soils puddle ditches sunk in the banks, and filled with a material, to intercept the progress of animals. The bed of canals is rily level, that the water will flow le current from one end of a level to water drawn off at the lower end. are the spaces between two locks, being at a greater or less elevation ne adjoining. These changes of ed each other rapidly in hilly disthey are often so great that ks are required, one immediately mother like a flight of stairs, in sroome the difference of elevation. anal presents a level of 63 m. in out a lock, and at Lockport, where from the level of Lake Erie to that lessee river, there is a succession of

10 double looks built in masonry, overcoming a difference of elevation of 60 feet. As ordinarily constructed, a look is a chamber of timber or masonry, long and wide enough to receive the largest boats that navigate the canal. Indeed, the size of the boats is limited by that of the locks. Its bottom reaches to that of the lower level, or pound, as it is called by the English, at the termination of which it is placed, and its top is a little above the surface of the water in the upper pound. Each end is closed by heavy swinging doors, which open in the middle against the direction of the current. The width of the 2 doors being a little greater than that of the lock, they meet before they form a right angle with the sides of this, and consequently brace against each other, and form a close fit when the water presses against them. The upper gates, reaching only to the bottom of the upper pound, are as much shorter than the lower gates, as the difference of elevation of the upper and lower level. The gates near their lower end are furnished with sliding valves, which may be controlled from above, and which serve, when opened, to admit the passage of water through the gates, when these are closed and cannot be opened for the pressure of the water against them. When a boat ascending the canal comes to a lock, the lower gates being open, it passes in, and the gates are immediately closed behind it. Water is then allowed to flow through the upper gates, or through a aluice discharging from the upper level into the lock. As this fills, the boat is lifted up, the upper gates are gradually freed, so that they can be opened and the boat can pass through upon the higher level. Were another boat to follow in the same direction, the upper gates must be first closed, and the lock emptied through the lower gates. These being then opened, the boat can pass in, and the process be repeated. In this operation there would be a lock full of water discharged to a lower level, which might have been used for letting down a boat, had there been one ready to pass in the opposite direction. Hence, when the supply of water is limited, there is economy in passing the boats al-ternately each way through the locks, beside thus expediting the passage of the greatest number. The common lift of a lock is 8 or 10 feet, though it is occasionally much less, and is sometimes as great as 18 feet. Canals are supplied with water upon their upper levels, to replace what is consumed by evaporation, leakage, and the passage of the boats through the locks. Upon every mile of the Eric canal, Mr. J. B. Jervis estimated the loss, without reckoning that caused by opening the locks, to be 100 cubic feet per minute. Knowing the number of boats that pass, the quantity of water they displace, and the size of the locks, the required supply of water may be estimated. Reservoirs are often constructed to contain surplus quantities, and furnish it as wanted. Branches of a canal, called feeders, are sometimes made to bring water from distant sources; and steam power is also

employed to raise water from a low level to feed the upper levels of the canal; as at Chicago, where the water of Lake Michigan is pumped up to flow into the summit level of the Illinois and Michigan canal. Inclined planes, upon which trucks for carrying the boats are worked by steam power, are substituted for locks upon some canals, as the Morris and Essex in New Jersey. These have a slope of 1 in 21, and at the lower end are continued far enough under the water for the truck to pass beneath the floating boat. At the upper end the rails curve over the dam, which holds back the water of the upper level, and then slope away beneath the surface far enough for the boat to float on or off the truck. The boats are secured to the carriage by chains, and the whole is moved by an endless chain carried by a stationary steam engine. Similar planes were constructed on the Shropshire canal in England many years ago; one of which was 1,800 feet long with a perpendicular rise of 126 feet, and another rose 207 feet in a length of 1,050 feet. Some remarkable contrivances have been devised in England for passing canal boats from one level to another with the least possible ex-penditure of water. By one the descending boat is made to counterbalance the ascending one, and the horse that draws the boat upon the canal is used to move the machinery.—The business of canals is now principally limited to the transportation of heavy freight, as coal, lumber, the products of mines and farms. expense of moving these upon existing canals is so low, that such canals on lines of large trade will long be able to compete with railroads, especially those with difficult grades. But for transporting passengers and costly freight, and all such materials as are liable to injury by delays, the business of canals is already superseded by railroads. From the report of Mr. McAlpine, already referred to, it appears that in 1848 coal was transported on the Chesapeake and Ohio canal from Cumberland to Georgetown, 184.4 miles, at an expense of \$78 06 per 100 tons, or 41 mills per ton per mile, including interest on cost of boats and fixtures, repairs and depreciation, wages, cost of towing, loading and unloading. On the Schuylkill, and the Delaware and Hudson ca-On the nals, the expense, including all these items, was \$44 54 for 108 m., or 4_{15}^{1} mills per ton per mile. On the Schuylkill canal in 1852 the cost was estimated at 6 mills per ton per mile; and on the Delaware and Hudson before its enlargement at 51 mills. The reduction made in the expenses by the enlargement has already been noticed. The expense on the Erie canal in 1852, including wages, towing, depreciation of value of horses, office and personal expenses, and part cost of loading and unloading, is given at 27 mills per ton per mile. Mr. Seymour, the late state engineer, estimated the whole cost at 31 mills per ton per mile. The charges for transportation at that time, except late in the season, averaged 6.2 mills per ton for freight going

east, and 64 mills for that going west, not iscluding state tolls.—Boats are commonly towel upon canals by horses, a single horse drawing at a speed of 2½ or 3 m. an hour a boat leaded with from 50 to 70 tons, as easily as a load of 15 to 18 cwt. upon a good road. Men are sometimes employed to tow boats in Holland as they were in England, on the Thames and the Severn, till near the close of the last century. This is still the practice in China. Stem er is objectionable from the injury to the bash caused by the wave from the paddle-wheels Propellers making less wash upon the banks are employed on canals that are sufficiently large to afford them convenient room. In 1830 boats were introduced upon the Glasgow and Paisley canal in Scotland, designed to run at the rate of 9 or 10 m. an hour. It was found that light boats made of thin boiler plate iron, their length being about 70 feet and their width less than 6 feet, could be drawn by 2 horses with a load of 70 or 100 passengers at this speed without producing a wave that would here the banks of the canal. As the boat strins this speed it overtakes the wave in front of it and riding upon the top of it, the boat and the wave move onward together, smoothly and with comparatively light draught of the home. These are changed every 4 m., and are put on several times in the course of the day. The method has been practised many years on the Birmingham canal. It has been tried in this country, but is not in use. In July, 1858, bear built to be propelled by steam made successful trial trips from Buffalo to Rochester. It has been generally supposed that rapid rates were unsuitable to canals, but experiments are now in progress in New York to test the contrary opinion.

CANALE, a small town in the Sardinian province of Albi, with important salt springs. Pop. 3,900.

CANALE, ARTONIO, commonly called CAMA-LETTO, and also IL TONINO, an Italian points. born in Venice, Oct. 18, 1697, died there Aug. 20, 1768. His father was a scene painter, and educated him to the same profession. He resided for a time in Rome, about the year 1714, and there studied the remains of antiquity, be gan to apply the skill with the pencil, which be had acquired at Venice, in painting from nature and gained the reputation of an accomplis artist in that branch. On his return to Veice he painted numerous views of that city, reducing with great accuracy its palaces, chare-es, and canals. The best of these was the view of the grand canal, which is now in the galler of the Louvre. He spent 2 years in Engle and painted while here an interior view King's chapel, Cambridge. His works His works #0 found in all the galleries of Europe.

CANALE, NICOLO, a Venetian admiral, who flourished in the second half of the 15th center. In 1469 he was commander of the Venetian fleet at Negropont (the ancient Chalcis), and succeeded in seizing the Turkish town of English.

s perpetrated upon the inoffensive created great indignation at Conand Mohammed II., with a view of he outrages, besieged Negropont of 120,000 men, and after a violent elled the Venetians. Canale, to efeat was attributed, was sentenced he council of ten, but at the instance I II. and of other influential persons, ent was commuted to exile for life. NA, a town in the kingdom of Da-

10,000. It is situated in a level ltivated tract of country. The scattered, and extend over a vast ng them is one set apart by the

use of white travellers.

AIGUA, the capital of Ontario co., turesque village, beautifully situated nd of the lake of the same name, ine of the central railroad. From t of the village the ground slopes ward the shores of the lake, affordficent view. The houses and other e noted for their elegance. Many lences are surrounded by fine garounds ornamented with great taste. Lentral R. R., and the R. R. from iagara Falls pass through it. Pop. ship in 1855, 6,480; of the village,

)AIGUA LAKE, noted for the s surrounding scenery, lies chiefly imits of Ontario co., N. Y., and is 137 feet above Lake Ontario. Its nd in excellent fish, and are frozen every winter. The Clyde, a tribuca river, is formed by the junction with the outlet of this lake. long, and from 4 to 14 m. wide. 3, CONSTANTINE, one of the bravest e Greeks in their war of independbout 1790 in the island of Ipsara. reak of 1821 he was captain of a ssel which made frequent passages Shortly after the barbarous devass island of Scio by the Turks, he fleet of the Greeks under Miaulis tips, skilfully arranged, and manned and Hydriotes, to the harbor of June, 1822), and succeeded in atn to the vessels of the Capudan Japudan Bey, of which the former, the time in celebration of the Rablown up with thousands of men, ter scarcely escaped as a wreck. which revenged the massacres of ollowed in the same year by a it in the harbor of Tenedos, which eek fleet from destruction, and fills with terror. The honors with is received after this achievement il to inspire him to further efforts, nged the Turkish cruelties on his l by a new victory at Samos, near ory of Mycale, whose ancient glory wed (Aug. 17, 1824). This saved VOL. IV.-23

the island of Samos from the fate of Scio and Ipsara. But his bold attempt to burn the Turkish fleet in the harbor of Alexandria, where it lay ready to take the troops of Mehemet Ali to the Morea, was baffled by contrary winds at the moment of execution (Aug. 4, 1825). Honored by the command of the frigate Hellas sent from America, and by the education of his son in Paris, he was elected in 1827 as the representative of Ipsara in the national congress at Ermione, or Castri, and in 1828 was appointed by Capo d'Istria commander of Monembasia, and subsequently of a naval squadron. After the assassination of Capo d'Istria (1881), he retired to Syra. Under King Otho he served as pliarch, or captain of the first rank, and in 1848-'49 as minister of the navy, and was commander of the order of the Saviour. Again made minister in May, 1854, he resigned in May, 1855. In the spring of 1858, disgusted with the conduct of the government, he sent back to it all his orders and commissions, resolved henceforth to be only a private citizen. The heroism which distinguishes the revolutionary life of Canaris is equalled by the modesty which characterizes his whole career; even a certain timidity in conversation is mentioned as a feature of the man whom the Mussulmans feared more than the tempests and cliffs of the Ægæan.

CANARY BIRD (fringilla Canaria, Swains), a well-known member of the finch family, a native of the Canary islands, but naturalized in Europe and the United States. The native bird differs materially from the variety commonly seen in cages; the adult male has a much darker bill; the general color of the plumage varies from a greenish yellow on the front. chin, throat, and breast, to a golden yellow on the belly; the sides, thighs, and under tail coverts are dirty white; the top of the head, back, and upper tail coverts, brown ash, with a longitudinal brown spot down each feather; the wing feathers, brown black, with pale brown edges, margined with white near the back. The color of the female is more dingy and indistinct, having much less greenish yellow about it. In size it is less than the domesticated species. builds in thick bushes and trees, pairs in February, and lays from 4 to 6 pale blue eggs, hatching 5 or 6 broods in a season. It is very familiar, and frequents the gardens of Madeira, where its song is highly prized. The domesticated species is about 51 inches long, with a pale bill, and the whole plumage of a rich yellow color, with the edge of the wing yellowish-white; the colors of the female are less bright. The original stock is said to have been imported from the Canary islands about the 14th century; in Europe it has been mixed with the aberdevine (carduclis spinus), the venturon (fringilla citrinella), the serin (fringilla serinus), the gold-finch (carduelis communis), and various other birds, producing hybrids, fertile and sterile, of great varieties of color and characters. There are about 50 varieties of the canary, which will preserve their characters distinct if proper-

ly paired. They are bred in immense numbers on the continent of Europe, and many are imported into the United States from Germany. The 2 varieties most prized by amateurs are the jonquil and the meally, which combine the greatest beauty of color with excellence in song; the latter have a bright orange cap, this color pervading the whole plumage, except on the wings and tail, which are deep black; the former have the neck, back, and wings waved and mottled with purplish gray tints. The German birds have often considerable green in their plumage, bearing a stronger resemblance to the wild bird than do the higher prized varieties. The most mottled varieties may be as good singers as those of the purest colors. The song of the canary is familiar to every one. With less power, compass, and variety than the nightingale, it has greater powers of imitation, a better ear, and a better memory; it sings at all seasons, in the dullest weather, and is equally welcomed in the palace and the hut. It becomes very tame, and is capable of attachment to man; it is easily educated to perform tricks at public exhibitions, many of which are quite astonishing. Their dispositions are as various as their colors. This climate is too severe for the outdoor naturalization of the canary, but its indoor rearing in cages is very common. They begin to pair about the middle of February, and will make a very neat nest if the proper materials are supplied to them; they will also lay in nests artificially prepared. The time of incubation is 13 or 14 days; the number of eggs is usually 6. The young partake of the physical characters of the parents, whether gay or mottled. Their favorite food is canary seed, to which a little rape and hemp seed may be occasionally added; they should have light, fresh air, plenty of water to drink and bathe in, and free access to sand or gravel; a sprig of chickweed or a leaf of lettuce will be highly relished by them. The canary will thrive very well on this food; when breeding, the yolk of a hard-boiled egg should be given them. Their diseases are due principally to improper or too much food; cleanliness and attention to sifting their seed will generally protect them from parasitic insects.

CANARY GRASS (phalaris Canariensis), an annual grass native to the Canary islands, cultivated for its seeds, with which tame birds, especially canaries, are fed. It is grown on the isle of Thanet, in the county of Kent, England, also in parts of Italy, France, and Switzerland. It has a stalk 1 to 3 feet high, topped by an oval, close-grained panicle. It requires a good soil and an open country.

and an open country.

CANARY ISLANDS, or CANARIES (Sp. Islas Canarias), a Spanish colony in the Atlantic ocean, off the N. W. coast of Africa, between lat. 27° and 30° N., and long. 13° and 19° W., comprising a group of islands of which the principal are Teneriffo, Grand Canary, Palma, Lanzarote, Fuerteventura, Gomera, and Ferro, with

a total area of about 8,400 sq. m., and a ption of about 260,000. The islands are ic, rocky, and mountainous. The pr mountain is the peak of Teneriffe, a celevolcano, 12,182 feet high. The very which traverse the islands:

swelled to torrents, and at others lowances made for frequent dryness, as which is extremely fertile, yields abunda vests, and the climate, although at sively hot, and exposed to severe cua to a pernicious hot wind from the Afri tinent, is, on the whole, salubrious. Im tation of both the tropical and temperate flourishes here in great luxuriance, and he described at length by Alexander von I and by Leopold von Buch. Horses and are scarce, but other kinds of domestic s abound; only a few, however, are in The reptiles are limited to a small scolopendra, and the frog. Among the only to be mentioned a species of trouv gnat or mosquito. Among the birds a African vulture, the falcon, buzzard, sp hawk, kite, 2 species of owl, 8 of sea-me goldfinch, the quail, wren, magpie, and list of other birds, including the famous bird, which derives its name from the i (See Canaby Bird.) The only freshis the eel. Marine fishes are scarce, but and seals are occasionally seen. The I comprise various kinds of grain, can potatoes, exquisite fruit, silk and cotton olive oil, tobacco, rosin, wood, hides, among those most extensively expor-cochineal, wine, barilla, orchilla, and woo exports of wine and brandy were for siderable; the produce of wine a 40,000 pipes until 1858, when the wass was nearly destroyed by a grape diaports have since materially fallen brandy, but have greatly increased in collands formerly occupied by vines and ing now devoted to the production on a sect, and the exports having risen from 1,000 lbs. in 1833, to 800,000 lbs. in and to 1,500,000 lbs. in 1856. The T of sugar, formerly of great impo en before the competition of the West Indian trade, and hardly average than a value of \$100,000 annually. silk is manufactured on the spot i ribbons; coarse linen and woollen s for home consumption; the leaves us palm are made into hats and baskets: bulk of manufactured goods is abroad. A fishery on the Afri from 40 to 50 vessels, and a g persons; the principal fish t which is salted and largely consumands. The foreign trade is chi Britain, the United States, I and the Spanish West Indies. Aug the United States have incrduring the year ending June ! 4856, W during the same period

orts to the United States have inring the same respective periods 8 to \$44,065. The ports engaged rade are, Santa Cruz de Teneriffe, d Las Palmas. They were made free in 1852, there being now ainal duty upon imported goods, ception of tobacco, which pays 10 sars, which pay 20 ets. per pound. es of foreign vessels average about v.—The Canaries are supposed to is which are mentioned by the and also by Plutarch and Ptolemy, unate islands. In 1834 they were d by a vessel which had been driven ess of weather; and after various reditions, the first effectual attempt ng them was made, with the assistin, by Jean de Bethencourt, a gen-Normandy, in the beginning of the y. After various conflicts, caused equent governors of the islands, by se of the natives, and by the claims Portugal, they passed eventually ssession of Spain. They are now ame form of administration as the ices of Spain, are represented in the ain 2 bishoprics, and the governor-ides at Santa Cruz de Teneriffe. ants are chiefly Spaniards (slightly those of the mother country), though descent from the aborigines, named who, however, are extinct. eligion is the Roman Catholic; Spany language in use. Two newspapers ed at Santa Cruz, and one at Las

RA, a mountain range of Brazil, at the S. termination of the Serra o, on the boundary between the f Goyaz and Minas Geraes, and

ay toward the S. E. E. a seaport town of France, de-Ille et Vilaine, situated on the W. chael's bay, 227 m. W. N. W. of narbor is enclosed by a chain of ed Rochers de Cancale, where are renowned oysters, of which enorties are sent to Paris and elsewhere. ible fish trade is also carried on town is divided into 2 parts, one of led La Houle de Cancale, and the La Houle may be considered of Cancale, and possessed, in 1854, of about 2,000 tons. The entrances essels in that year were 71, and the 5. Pop. about 6,000.

I, a species of irregular French cona which many voluptuous movestroduced, and which originated in bals de la Chaumière, with the stue grisettes of Paris.

LI, windows made of cross bars and d lattice-wise. The term is also ils and balusters, and for the aetinside of hollow bones.

CANCER (a crab), the 4th sign in the zodiac (designated by the mark ϖ), into which the sun enters at the summer solstice in June; also, a constellation of stars formerly occupying the sign Cancer (see AQUARIUS), easily recognized by 2 stars of the third magnitude, and a faint cluster nearly midway between them.— The Tropic of Cancer is the northern boundary of the torrid zone, a parallel of latitude where the sun is vertical at noon only one day in the year, viz.: the day he enters Cancer.

OANCER, a malignant disease to which nearly

every part of the human body is liable, either primarily or secondarily. It most commonly, however, originates in some one of the glands or secreting organs. Thus the female breast, the womb, the testes, the ovaria, and the thyroid gland are the most common seats of the disease. It however not unfrequently first shows itself in the skin and the various mucous membranes. The face, the lips, the mouth, the windpipe, the gullet, the stomach, and the intestines are often primarily affected. Other organs and membranes, when diseased, are supposed to have been attacked subsequently to the appearance of cancer in some other parts of the body. Medical writers generally divide cancer into 2 stages, scirrhus and carcinoma, although these 2 primary divisions are often subdivided into a number of subordinate There are some late authors whose microscopical investigations have led them to infer, that the cancer which appears ordinarily on the skin and superficial membranes, differs from the disease as it shows itself in other parts. They have accordingly distinguished this variety by the name of epithelial cancer. Scirrhus. derived from the Greek word signifying hard, is the term applied to cancer as it first exhibits itself. In this early state it appears as a hard and irregular tumor, with more or less dark discoloration of the skin. When cut into, it is found to be of a grayish tint, and composed of 2 substances; one of a hard fibrous nature, and the other of a soft material, somewhat like cream in consistence and color. The peculiar structure of these diseased products may be detected ordinarily by the eye alone, but with more certainty by the aid of the microscope, which to the experienced reveals at once the existence of nucleated cells, such as are found in primary tissues in the course of organization. The time during which cancer may remain in the state of scirrhus is variable, and depends upon the activity of the disease or the constitution of the patient. It sometimes remains stationary for many years, but finally, if allowed to have its course, assumes the secondary stage of softening called carcinoma. must be understood, however, that frequently from the very beginning cancer assumes the soft state, and under great varieties of appearance. The skin covering an ordinary scirrhous tumor having been destroyed, and the diseased mass softened by the process of ulceration, the cancer then becomes an open sore. The pro350 CANCER CANCRIN

gress from this time is very rapid. The malignant degeneration extends quickly to the neighboring parts; the ulcer increases, discharging constantly a morbid matter that destroys the surrounding tissue and is absorbed into the system; the constitution becomes generally affected, and death finally ensues from exhaustion, or such vitiation of the whole body as to render it unable to perform the functions of life. The pain from the earliest period is sharp, but at first intermitting; in the course of the dis-case, however; the agony becomes extreme, and death is welcomed by the sufferer as a relief. Cancer is now no longer, as in former times, supposed to be purely a local disease. It is generally considered a constitutional affection, depending upon a diseased state of the blood, with a tendency to reveal itself under some exciting cause, as a blow, for example, in any part of the body especially liable to cancer. All external injuries more or less violent, any continued pressure or irritation, excess in the use of spirituous drinks, depression of the mind, and especially a poor diet, are supposed to be favorable to the development of the disease. Cancer is undoubtedly an hereditary affection, as it may be constantly traced through various members of the same family, and a succession of generations of a common origin. It is a disease that seldom develops itself before the age of 30, although it is occasionally seen even in infants. That form of cancer called fungus hæmatodes, particularly where the eye is its scat, is by no means uncommon even in the youngest children. Women, and particularly the unmarried, are more liable to the disease than men .- In regard to the treatment of cancer, notwithstanding the great variety of means which have been and are still used, the general opinion of the most scientific physicians and surgeons is that it is incura-It is still a quastio rexata whether it is proper to remove cancer by a surgical operation. Some contend that the fatal result is hastened by excision, while others argue that much relief is thus obtained without any such effect. All, however, agree in denouncing the use of the knife when the general system is so far affected as to show constitutional symptoms. Those who believe in that peculiar form, called by them the epithelial cancer, a disease which shows itself generally on the skin, and especially on the face and lips, are of opinion that surgical operation is particularly beneficial as af-fording a means, in this form of the ailment, of frequent radical cure. For a long time the old mode of operation by means of caustic gave way to the use of the knife, but just now there seems a disposition to return to the former mode of treatment. The supposed success of an American of the name of Fell, now practising in London, and who makes use of a caustic compound of chloride of zinc and our native bloodroot, has led the profession to reconsider the efficacy of that method of cure. Dr. Fell has introduced the novelty of making, in the neighboring parts of the cancer, various incisions, into

the depths of which he inserts pieces of lint he smeared with the caustic, which thus appear is supposed to act with greater rapidity an power. Though the physician and surged have little faith in the efficacy of any meanst cure, they are undoubtedly able to do may toward mitigating the sufferings of the puter and therefore may be consulted with advantage by those afflicted with this terribly main ant disease.

CANCRIN, GEORGE, count, a Russian state man, born Dec. 8, 1774, at Hanau in German of an obscure family of Jewish descent, die Sept. 22, 1845, in St. Petersburg, while mass of finances, member of the imperial council, se ator of the empire, in fact at the height of la ors and dignities. He received his education Germany, and while a student at Gotting published a treatise on mining interests which he dedicated to Catharine II. of Russia. 1 that country he soon followed his father, w! had entered the Russian civil service a k years before, and was director of the salt wor in Staraia-Russa, in the government of No gorod. Cancrin began his career under h father, and then passed into the department the interior, to which the salt works belonge Laborious, well informed, and endowed with spirit of order and a certain organizing capacit he published a pamphlet upon the commissiri a branch of the administration at that time n torious for its disorder and malversation. The publication resulted in Cancrin's transfer fre the ministry of the interior to that of v to the commissariat. At the beginning or a war of 1812, Barclay de Tolly, commander the western Russian army, offered him theple of commissary-general. In that capacity, Canci introduced some beneficent reforms, beside pe lishing a small treatise on "Military Econor in Peace and War." In 1813 he was made c missary-general of the whole Russian force and as such participated in the campaigns 1813-'14, and accompanied the emperor Alex der to Paris. In 1815 he negotiated with t French government in relation to the expenses the Russian corps which, after the battle of W terloo, was for several years to occupy Fran Cancrin's integrity in this negotiation bei questioned by his enemies, he resigned active duties as commissary, but remained service without a special department. Duri this time of leisure, he published a work political economy under the title of "I Wealth of Nations," in imitation of Ad Smith and Storch, basing prosperity on a development of domestic industry, but wis out any original ideas. Alexander left empire to his successor in great disord the finances especially, the treasury en trade and industry prostrated. The emus Nicholas made Cancrin his minister of 1 The first business was to fill the t Russia proper, the government alor exclusive right of selling spirituous liquisholesale and retail. Hitherto the gov

inistered this branch of revenue. Cannow transferred the monopoly to private duals, called othuptchiki. But in Lithin the Baltic provinces, and in others ered from ancient Poland, the noanty or landowners enjoy the right of selling pirits; and as a contraband trade would early been carried into the interior injurious to interests of governmental farmers, by Canxm's influence a law was enacted, punishing with exile to Siberia for life every contraband er in spirits, and rendering the whole rural wammune responsible for any violation of the it if the monopolists perpetrated by one of pers. By this administrative combinar individuals acquired wealth as farmi the revenue, but administrative corrupwe became deeply rooted, and many poor peasmis were sent to Siberia. This darker side of Cancrin's financial activity was atoned for, in the opinion of later Russian statesmen, by his introducing a strong prohibitive system, by which an impulse was given to the development of home industry. Although the tariff revailing during Cancrin's administration was deficient in many respects—for instance, imposing export duties even on raw products mch as cereals, hemp, &c.—still he is believed to have laid the principal foundation of the strial progress which Russia has since ached. He was created a count by Nichwas treated him with special deference, ning him in office even when his ad-a age and broken health disabled him lirecting his department with his previsteadiness, and when maladministration and corruption were rampant there. Cancrin's personal probity is scarcely to be questioned, though he was rather avaricious, and left to ly a very considerable fortune acquired ly by the munificence of his imperial

VANDACE, an Ethiopian queen who invaded Typt 22 B. C., but was defeated by Petronius, he Roman governor of that country. In the 'Acts of the Apostles" mention is made of a euinch who was the treasurer of Candace, queen If the Ethiopians. The name seems to have een common to all the female sovereigns of thiopia.

OANDAHAR, or KANDAHAR, an extensive torince of Afghanistan, consisting partly of countains and partly of arid plains, bounded I. by the country of Balkh, S. by Beloochis-

E. by Sinde and Beloochistan, and W. ya desert which divides it from the Peran province of Seistan. Although the genal character of the country is barren, there he some fertile regions, especially along the ks of the rivers, where wheat, barley, pulse, 18 tobacco, and other plants and fruits are Among the wild animals are wolves, is, bears, leopards, wild asses, &c., and the tame animals are camels, mules, and of the domestic animals of Europe. A iderable transit trade is carried on in Candahar, the road between India and Persia passing through the country. There are in Candahar Hindoos (who are the principal bankers and shopkeepers), Persians, Belooches, and Tanjika, beside the Dooranees, which are the most important tribe of the Afghan country. Candahar formed part of Persia, was for some time arbitrated by the Monta covariance of Diki subjugated by the Mogul sovereigns of Delhi, and was again annexed to Persia by Nadir Shah. On the death of this conqueror it became a province of eastern Afghanistan. The inhabitants are mostly Mohammedans of the Soonnee sect, and sympathized with the Turks during the late eastern war. Pop. 750,000.—A city of Afghanistan, lat. 32° 87′ N., long. 66° 20′ E. It is fortified, and a place of military and political importance. Formerly it was the capital of the country, but in 1774 the seat of sovereignty was transferred to Cabool. The city is well laid out, the streets being at right angles, and the 4 principal streets, which are very wide, meeting at a circular place in the centre of the city. The town is situated near the Urghundaub, and small channels of river water run through the main streets. It was built by Ahmed Shah, one of the ablest Afghan princes, in 1754. His tomb is in the city. is a place of considerable trade. In 1842 the town was occupied by the British. Pop. variously estimated from 60,000 to 100,000.

CANDEISH, KHANDESH, KHANDEISH, OF CAN-DESH, a collectorate of the presidency of Bombay, in British India, bounded on the N. by the territory of Holkar, on the E. and S. by the Nizam's dominions, and on the W. by Guzerat. Pop. in 1851, 778,112. In the 15th century Candeish was governed by independent sover-eigns; toward the close of the 16th century it was annexed to the great Mogul empire. On

the overthrow of the peishwa in 1818, it became a British possession.

CANDELABRUM, a stand or support for a lamp. The candelabra of the ancients, generally made of bronze or marble, and inlaid with precious metals, were of superior beauty, both in design and workmanship. Sometimes the stand was a human figure, holding in one hand the oil-cup; sometimes the stem is represented as throwing out buds, as the candelabrum which, after the sacking of Thebes, was dedicated by Alexander at Cymse in honor of Apollo, and afterward brought to Apollo's temple on the Palatine at Rome; others had a sliding shaft like that of a music stand, by which the light might be raised or lowered at pleasure. Candelabra were also used in temples, on account of their resemblance to the holy torches em-ployed in religious festivals and ceremonies. Two exquisite candelabra, carved in marble, found in the villa of Hadrian at Tivoli, were presented to the university of Oxford by Sir Roger Newdigate, and are preserved in the Radcliffe library. In the Townley collection of the British museum are about 17 candelabra, including one of marble, 7 feet high, with a representation of a large flame on the top, several

of bronze, one of which has a spike to receive a clay lamp, with a hole in the centre, and various other exquisite specimens. The extraordinary size of the candelabra used in the palaces and temples of the ancients may be inferred from the specimens in the Louvre, in the Munich glyptotheca, and in the extensive col-lections of the Vatican and of other Italian museums, of which the most remarkable is that of the Museo Etrusco Gregoriano, with 43 different specimens. In the Museo Borbonico are several specimens of bronze candelabra found at Herculaneum and Pompeii, which are mere reeds or straight sticks, and give a correct idea of the lamp-stands of the ancients in their original and simple form. Homer relates that the palace of Alcinous, king of the Phæcians, was illuminated by lamps supported by golden candelabra, which represented youths standing in an elevated position upon altars. Cicero speaks admiringly of a candelabrum ornamented with precious stones, presented by one of the sons of Antiochus to the temple of Jupiter Capitolinus at Rome. The most gigantic candelabrum of antiquity was the celebrated Pharos at the harbor of Alexandria. The artists of Tarentum were renowned for their admirable design and execution of the shafts, while the candelabrum-makers of Ægina eclipsed all others in the exquisite workmanship of the or-namental parts. Those of modern times are simply chandeliers with several branches, made of crystal, porcelain, alabaster, &c., and supported by a metal stand, generally of bronze. Yet here and there a genuine candelabrum, after the model of antiquity, is made for the use of churches. The candelabrum of sandstone, 80 feet high, erected Sept. 8, 1811, in Thuringen, upon the site where, in all probability, the first church established by St. Boniface stood, approaches more than any other modern work of the kind to the candelabra of antiquity.

CANDI, CANDY, or KANDY (Cingalese, Ma-ha Nuwara, great city), a town of the island of Ceylon, and formerly capital of the king-dom; pop. 7,000. It stands on the shore of an artificial lake, in an amphitheatre of beautifully wooded hills, near the centre of the island, and since the year 1815 has been greatly improved. The residence of the British governor here is the finest edifice in Ceylon; and beside this the town contains the residence of the majorgeneral, the king's palace, a Buddhist temple containing the tooth of Buddha, several churches of various denominations, and a number of other notable buildings. centre of the lake is a military magazine, and just outside the town, in a royal cemetery, repose the remains of a long line of native kings and heroes. The natives are engaged to some extent in making bricks and tiles, elephants being employed to tread out the clay. lake of Candi, which was formed by the late king, and is 1,680 feet above the sea, is a beautiful sheet of water, about 11 m. in length, and from 100 to 500 yards in breadth.

CANDIA, or CRETE (anc. Crete ridi), an island forming the southern Grecian archipelago, and lying the Morea on the N. W., Asia Minor of and Africa on the S., belonging Turkey, and constituting the present eyalet of Kiridi. It extends from about 160 m., across three-four breadth of the Ægæan, which is en-western side of the island by the strait of Cerigotto, and on the eas strait of Scarpanto. It has an aver of 25 m., and an area of more than Throughout its entire length, it centrally ridged by a chain of which send off to the S. spurs ter bluffs, rendering the southern coa able; while to the N. the spur-alope to a low coast, forming sever harbors, of which the 3 principal Kisamos, and Suda, the last ment the best the island affords. All the however, especially that of Canca, once excellent, are now, through 1 neglect of the commercial interests and, and the oppressive taxation being rapidly filled with sand, so th ent port of Canea affords approx vessels drawing less than 8 feet of all vessels of greater draught are o at anchor under the lee of a small is north of the port, 6 m. distant. Th ous chain of Candia is naturally diparts: the eastern, or ancient Dict tains, now called Siti; the western Leuci mountains, so called from the (being covered by snow 8 or 9 mo year), now known as the Sphakiote and the central chain, anciently whose middle and principal pe known as the Psilorati, rising to 7,674 feet above sea level. The co island are very irregular, being deep by the spurs of the mountain chain. tains, being of calcareous formati in caverns and grottoes, some of highly picturesque. Gypsum, lime, a found to some extent. It was in thi the famous labyrinth of the fable was situated, which was probably (numerous grottoes, rendered more the art of Dædalus, under the d Minos. Some travellers have place rinth in the neighborhood of Gort Matala, the southern point of the also the most southern land of Eu dia can scarcely be said to have the water-shed of the mountains no 15 m. in breadth either way to the rainy season of the autumn and win are precipitated from the mountain dry up in the summer, and the on for the irrigation of the land are springs which abound among the island is nevertheless tolerably fertil the restrictions of the Porte on the

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exports and profits to the agriculturist. As it is, the exports are chiefly silk, olive oil, wine, granges, lemons, and soap. The annual average exports of silk amount to about 80,000 lbs., and of soap to about 10,000 cwt.; the value of the total exports increased from \$1,200,000 in 1842, to \$3,200,000 in 1856. Candia owns short 600 vessels; tonnage about 35,000. The sereal produce of the island is small, and the inhabitants are obliged to import large quantities of grain from Egypt and Barca. The wines of Candia have been famous for many enturies, especially the Malmsey and Arcadian. The Malavesi or Malmsey raisins are also well known. Cotton and tobacco are raised is small quantities, and the exports of coal (of which there are 2 principal basins, opened in 1889, one upon the N. coast, near Retimo, and the other on the S. W., near Sphakia) might be considerable, under better commercial regulations. The land affords good pasturage among the hills of the mountain chain, and large numbers of goats and sheep are raised; the former distinguished for their milk, and the latter for their excellent mutton. Cattle are neglected, as they are only used for draft in the agriculture of the island, there being a prejuis mild and generally healthy, with the exception of those portions of the valleys not readly drained, which in the summer months are extremely unhealthy. Leprosy is the only endemic of Candia. The thermometer ranges endemic of Candia. The thermometer ranges from 60° to 70° F., in extreme instances rising to 88°. The N. wind (called by the natives chart) tempers the summer heat. The peaks of the mountains, especially in the west-ern and central part of the chain, are covered with snow for three-fourths of the year.

Among the numerous birds of beautiful plumand song, inhabiting Candia, is to be specially mentioned the kajabulbul, which is so much esteemed in Turkey as to command a price of \$100. The trees and shrubs of the island are many of them aromatic.—Candia was anciently settled by colonies, probably from the Phoenicians, Pelasgians, and Dorians, and according to history or fable, was first governed by Minos, whose laws are famous in Greek literature. After him came a line of chiefs who were probably succeeded by a somewhat republican form of government, which contin-aed until the Roman conquest of the island (67 B.C.) In the partition of the empire, Candia fall to the East, and was held until A. D. 823, when it was taken by the Saracens, who retainid its nossession till the 10th century, when it the hands of the Genoese. From them d by gift to Boniface, marquis of Mont-et, who sold it to the Venetians in 1204. We venetians retained its possession for more lan 4 centuries, and this is the golden age of andia. The Turks finally wrested it from the enetians in 1669, after a bloody struggle of

Jears. At the command of the pope, France,

of the island removed, the soil would yield large

Malta, Savoy, and Italy sent auxiliaries against the Turkish infidels, but all to no avail. The fortifications of Candia yielded to the bombardment of the Mussulmans and the island became a possession of the Porte. In 1821, and again in 1841, a popular insurrection only had the effect to increase the weight of the Turkish yoke, especially in the restrictions on commerce in 1842. In 1880 it was given by the allied powers to the vicercy of Egypt as indemnity for the loss of his fleet at Navarino, &c. In 1840 it was restored to the Ottoman Porte. Its present political division is into 8 sanjaks: that of Candia on the E., of Canea on the W., and Retimo in the middle. At Candia is a pasha of 8 tails, while the governors of the other 2 pashalics are pashas of 2 tails. Christian division of the island was, until 1880, into 12 bishoprics of the Greek church, but now reduced to 8, of which the bishopric of Gortyna is the principal, and whose incumbent, appointed by the patriarchate of Constantinople, takes the title of archbishop. His dignities are the triple crown, the right to make his autograph in red ink, and to ride on horseback into Candia. In ancient times, the island was very populous; some writers represent it to have had a hundred cities; but its population is now much diminished, especially since 1821, and comprises not above 200,000. The inhabitants are in a very rude state, both as to education and the arts and practices of social life. The majority of them are Greek Christians. Nationally considered, they are made up of Turks and native Greeks. In the S. W. part of the island, among the mountains, is an aboriginal tribe called the Sphakiotes, who infest the country as robbers, and have never been completely subdued by their Turkish masters. There is also a Mohammedan settlement of pirates, formed by the Abiadotes, which is situated S. of Mt. Ida. The inhabitants of Candia are remarkable for agility, swiftness, and activity, and at the same time for daring, vindictiveness, and venality.—An insurrection broke out on the island in the early part of 1858. The Turkish government despatched 2 commissioners, to confer with the insurgents, who protested their loyalty to the sultan, but asked for the redress of their grievances. The government issued a proclamation, dated June 7, 1858, in which many of their requests are granted, and which seems to have restored peace. The governor of Candia, however, refused to assent to the terms of the proclamation, and he was recalled. Among the books to be consulted on ancient Crete and modern Candia, must be mentioned Hock's Kreta (Göttingen, 1823); Sieber's Reiss nach der Insel Kreta (Leipsic, 1828); Pashley's "Travels in Crete" (2 vols. 8vo, Lond. 1887); Churmuzu's Koprusa (Athens, 1842).—Oandia (Romaic, Megale Kastron), the capital of the above-described island, the seat of the governor and of the Greek archbishop, contains several places of worship and Capuchin convents. Among the mosques

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is one called after St. Catharine. Pop. 12,000, of whom 9,000 are Mohammedans, and the rest Greeks, Jews, and Armenians.

CANDIAC, JEAN LOUIS PHILIPPE ÉLISABETH MONTCALM DE, a precocious French child, a brother of the marquis de Montcalm, born at the château de Candiac (Gard), Nov. 7, 1719, died in Paris Oct. 8, 1726. The child possessed remarkable powers of memory, although of a purely mechanical order, and is said to have been able to read French and Latin at the age of 3, and Greek and Hebrew at 6, and to have acquired some knowledge of arithmetic, heraldry, geography, and history. He died from dropsy of the brain.

CANDIDO, PIETRO, a Flemish painter and sculptor, who adopted this name, while his real name was Peter de Witte, born in 1541 at Bruges, died in 1628 at Munich. His principal paintings are of a religious character, as the "Annunciation," "Last Supper," "Christ with the Disciples at Emmaus," and "Holy Women at the Tomb of the Saviour." His most celebrated piece of statuary is the mausoleum of

the emperor Louis IV., at Munich.

CANDLE, a small cylindrical body of tallow, wax, spermaceti, or other fatty substance, formed on a loosely twisted wick, used for a portable light. Although in our translation of the ancient Scriptures we find occasional mention of candlesticks, it appears that these were really lamps for burning olive oil, and not the supports for what we now call candles. Nor did the ancient Greeks and Romans possess any nearer approach to these useful inventions than the rude torches prepared by dipping strips of papyrus or rushes into pitch, and coating them with wax. The early Christians, driven by persecution into caves and catacombs, expe-rienced the want of artificial light, and the first use of modern candles is generally referred to their times. It is stated by Eusebius and others that, in the early part of the 4th century, the emperor Constantine caused the whole city of Constantinople to be illuminated on Easter eve with lamps and wax candles. In the middle ages, according to Fosbroke, this kind of candle was in use, some of them being of 50 lbs. weight, and containing a twisted tow wick. The tallow prepared from the fat of animals afterward came to be used for the manufacture of candles, and at a still later period the similar product, called spermaceti, of the fluid fat of the The vegetable kingdom, too, has been largely drawn upon to furnish from its oils, as those of the palm especially, and of the cocoa-nut, a solid material for this same use. The berries also of the cerifera, myrica, latifolia, and angustifolia, afford a waxy product applicable to the same purpose. The mineral kingdom, at last, has been made to yield from the bituminous coals, in the substance paraffine, another excellent material for candles. Thus nature has provided the most abundant and varied means, by which man may supply himself, in the darkness of night and in the depths of

mines, a substitute for the light of the Using the crudest animal fats, pre simplest manner by melting and then off the membranous portions which flos. surface, common dipped candles have le made by introducing wicks of cott the warm semi-fluid tallow, and when become saturated, taking them out and ing them by one end till the tallow cool are then dipped again, and again cooled by each dipping accumulate more to they attain the required size. A min mutton suct and beef fat is preferred to alone, the former giving the desired h and the latter the light, which it affords son of its greater proportion of oily Instead of the old-fashioned method of by hand, a simply contrived machine ! used for this purpose in Edinburgh, co of an upright revolving post, which ca horizontal arms, at the end of each of attached a frame of six rods; from each hang 18 wicks, making in all 1,296. As is turned round, each arm comes in su over the reservoir of tallow. The frau it is arranged, so that the wicks can be l into the tallow. Thus one set after and ceives an application of tallow, and is c it revolves around, before its turn co another dip. When the weather is n warm, the whole can be completed in hours. An improvement upon the dipp cess was the substitution of cylindrical of the size of a caudle, made of tin or and a number of them arranged in a moulds of glass have recently been sub for those of metal. A wick is secured the centre of each mould, the tallow in, and the wick being stretched tight, set away to cool.—The most efficient as method of separating the tallow or la large scale from the tissues of the fat, patented by a partner of the firm of Wil Co. of Cincinnati, and generally adopte large candle works in the western sta cylinder is constructed of boiler-plate i pable of bearing a pressure of more that upon the square inch, and of the cap 1,200 or 1,500 gallons. It is set on one e a strong wooden frame, under which movable tub is placed. The cylinder vided with a false bottom, perforated wi for steam to pass, and through this real bottom is a large discharge hole, into the tub beneath and closed by cover, which may be lifted off by a ro passes out through the top of the cylin this top is a man-hole and a safety val different elevations up the side are co drawing off the contents, and under t bottom is a steam pipe leading from boiler. The fats to be purified, and th and other portions of the carcass, an duced through the man-hole to within of the top. The openings are then clo safety valve is set at the required p

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50 lbs., and the steam is let on. se to the top is, during the pro-ly made use of to indicate the is portion. If fatty matters are s too much steam, and some must ether with the fatty substances into the tub below. The boild 12 to 15 hours, when the proand the steam let off. The warom the steam subsides with the he fat, and after the pure tallow n off through the side of the vesut at the bottom into the tub. s said to produce an excellent st equal to guano. A pressure) or 70 lbs. is liable to cause dethe animal matter, and defeat of the article desired. -In France ntinent, a method of preparing i in use, which consists in decomnbranous tissue, which holds the its cells, by boiling the fat with ed with about 1 of its weight of

The heat is applied by a jet of hrown into the mixture, placed aden vessels, and kept constantly hours, while the steam is intro-nelted tallow collects upon the fluids by standing half an hour; wn off carefully, and the acid erward removed; the tallow is and, with 1 of its weight of wa-ated by steam. After boiling 10 ion salt amounting to 1 per cent. of the tallow is added, and the exactly neutralized by a solution f potash, litmus paper being emate the neutrality of the solution. hen drawn off into a leaden evapand the water is separated by By this process a very pure tald, which requires no bleaching, tity is considerably larger than the old method. All danger of s avoided, and the neighborhood hose noxious effluvia which make process an intolerable nuisance, dded to tallow, to give it greater it is also, at times, introduced moulds, and, by turning these to line them entirely, leaving drical cavity, into which the tal-ard poured; the candle is thus its exterior part of wax.—The evenents in the manufacture of have resulted from the investi-Chevreul, a French chemist, into on of animal and vegetable oils 1813 he announced the discovery these bodies consist of a number of different acids with one base, led glycerine. Combined with formed the body stearine; with ne; and with margaric acid, maracid is a fluid oil, which, accordportion in combination with the

other solid acids, gives fluidity to the mass, and the tendency to run in the candles. Glycerine is a sweet sirupy substance, which adds little to the inflammability of the stearic and margaric acids with which it combines. By removing it from these acids, and then expressing from them the oleine, an excellent material for candles was obtained, hard and firm, and almost The alequal to those made of spermaceti. kalies, as potash, soda, and the alkaline earth lime, by their greater affinity for the acids, have the property of taking them up and leaving the glycerine in solution in the water first employed as a solvent for the alkali. Boiling the fats with pure lime water is the process called saponifi-cation, usually employed to effect this decomposition. The products left after drawing off the mother liquor are hard, soapy substances, combinations of margaric and stearic acids with lime. The soaps are next pulverized in a mill, or under metallic cylinders, to prepare them for the third process, which is their decomposition by diluted sulphuric acid. The cold mixture of fat and acids is left to stand sometimes several days, and is often stirred, that the lime may be entirely taken up by the sulphuric acid, and collect at the bottom in the form of the insoluble sulphate. The process may be hastened by heat, but to the prejudice of the purity of the products. The liquors drawn off are treated with a little more acid, if all the lime is not already removed, and are freed from all lime and sulphuric acid by thorough washing with water heated by steam. Left thus pure, the stearic and margaric acids are placed in pans of sheet-iron, in which they solidify into cakes of a yellow colorand greasy appearance, both which are owing to some oleic acid mechanically mixed; this is removed by the powerful pressure to which the substance is subjected after being cut up into thin sheets and placed in bags of serge, or on mats, under a hydraulic pres first in a cold press, and next in one heated by steam. The latter removes the last portions of the cleic acid, and the greater part of the margaric acid also. The solid products usually constitute about 45 per cent. of the original fat. To purify them from any traces of sulphuric acid or lime, they are melted at a gentle heat, filtered, and then washed with dilute sulphuric acid, and afterward with pure water, the materials being kept hot by steam. The stearic acid, with a little margaric acid remaining with it, is now moulded into cakes, which are of a brilliant white color, and are ready to be made into candles by the usual process of moulding. Beef tallow may be made to yield 75 per cent. of stearic acid. Hog's lard, which is the tallow of the fat of hogs, varies in its yield of this acid according to the nature of the food of the animal, potatoes and grain tending to produce a solid fat, and the waste of distillers and similar food producing a fat more abounding in olsic acid. The best lard may yield 38 per cent. of solid stearic and margaric acids. The stearic candles manufactured in this country are quite infector

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to sperm candles; those made in England are described as being nearly equal to wax candles. Beside being prepared from animal fats, stearic acid is obtained in very large quantities from palm oil imported from Africa.—The largest candle manufactory in the world is that of Price's patent candle company, at Belmont, Vauxhall, and in this palm oil is the principal raw material employed; cocoa-nut oil is also imported and used in large quantities. Their factory at Belmont covers nearly 2 acres, and they have large branch works at Battersea, beside another factory on the Mersey, 4 m. above Birkenhead, which covers 31 acres, and the walls of which are 20 feet high. The company employs about 2,000 persons. The amount of their capital stock is £700,000, of which £612,000 has been paid in. Shops for weavers, carpenters, tinmen, coopers, smiths, both iron and copper, are included in their great establishments; a steam printing machine also is provided for striking off labels; and though the business of these works is to manufacture the materials for light for others, their own premises are lighted with gas made expressly for their use. The principal differences between this process and that already described of the manufacture of stearic acid from tallow are first in bleaching the oil by exposing it to the air for 10 or 15 hours, in a layer only an inch or two thick, or by the use of bichromate of potash, or of some other bleaching material. On being melted by steam the oil is pumped into an acidifying vessel and heated to 350° F. Concentrated sulphuric acid is then added at the rate of 6 lbs. to the cwt. of oil. After additional heating and standing for 24 hours, it is put into large copper stills, and steam is passed through it, raised to the temperature of 600°. The oil is thus distilled, and is condensed free of most of its impurities. The product is next pressed to separate the olcic acid, and then becomes the beautiful material so much like sper-maceti, from which the "Belmont sperm" and "Belmont wax" candles are manufactured. Composite candles are prepared from the distilled oil without its being pressed, and a mixture of stearic acid from the cocoa-nut oil; or this latter is used with stearic acid from tallow. These candles are made with plaited wicks, but they are of inferior quality to the candles prepared from the more thoroughly purified material.—The best candles in general use in this country are made of spermaceti. This substance, which is fluid in the whale, becomes when taken from the animal a white crystalline mass, composed of a liquid oil and a solid matter, which is the pure spermaceti. The oil is removed by first straining off so much as will pass through the bags used as filters. The sperm is next placed in hempen bags and subjected to machine pressure. After this the substance is reduced to powder, placed in other bags, and pressed much more powerfully than before. The spermaceti cakes are next melted and boiled with a soda ley, just sufficient in

quantity to form a sosp with the oil is the sperm, without acting upon the solid matter. The soap floating upon the surface is skinmed off, and the sperm is set to crystallize in mould; only, however, to be again ground, presed, boiled with an alkaline ley, washed with water and moulded into blocks. From these blocks the candles are moulded as may be convenient The moulds require to be heated to the w perature of the melted sperm, and slowly cooled after filling to prevent crystallization of the material, and the same precaution is required with stearic acid candles. The English are in the habit of adding about 8 per cent. of war, which answers the same purpose of prevening the material from assuming the brittle, crystal-line structure. They, and the French also, sometimes introduce coloring matters into the candles, in so small quantity as not to destrey their beautiful transparency, nor to affect the brilliancy of their light. Gamboge gives to them a yellow tint like wax; chromate of led is used in France for this color, carmine for red. and Prussian blue for blue.—Wax cards are now little used compared with the other kinds. They are made by dipping, and by pouring the melted wax over the wicks. The shape is given during the process and at it close by rolling the candles between meril The candles are sometimes shap drawing them through a machine made for the purpose, as wire is drawn. There is a diffe in moulding wax candles, owing to the subst adhering to the interior surface of the mound Moulds of glass, however, have been successions. fully used, greater strength and security b given to them by incasing each one in a tel gutta percha. By dipping them for an interior hot water, the glass expands sufficiently to free the candle, which should be extracted the mould comes out of the water. Wax n quires smaller wicks than other candles, a they should be made of twisted Turkey co unbleached. The large wax candles used Roman Catholic churches are made by rolli a sheet of wax placed upon a slab over the wick laid down upon it, and then giving a to them by rolling in the usual way between marble slabs. Coloring matters similar to the used for coloring spermaceti candles may free be melted into the wax.—Paraffine candles are not yet prepared upon a large scale, but the practicability of obtaining from bituming coals a large amount of oil from which this beautiful material for candles may be extract has been fully established. It is a true chemic compound of carbon and hydrogen, in the atomic proportions which appear most able for producing the best light. From the chemical talent which is applied to this set ject on this as well as on the other side of the Atlantic, and the success already attains there is every reason to hope for important results in the application of this substance to the manufacture of candles.—Little l yet been said of the different kinds of wicks

They have been the subd for candles. t of especial attention on the part of the facturers, and many improvements have devised upon the ordinary loosely twisted read of cotton. It is found that the more t the wick, and the better adapted it is to icular kind of candle, the more brilliant light and the less the consumption of nal. The coarse threads used for tallow mules raise the melted grease to very little ight, and soon are covered with a burr of maceous matter, which must be removed , requent snuffing. Wicks of finer threads ave a greater capillary action, and require So long as the threads of the ss snuffing. rick remain in the body of the flame, they are retected from the action of the oxygen of the ir. and the material is charred without being ned. By turning the top of the wick to side, so as to project from the flame, the gut is no longer obscured by this burr, which con disappears by its combining with oxygen. he plaited or braided wicks were contrived to ffect this result, the plaits opening at the top ad spreading out to the edge of the flame. wist has been ingeniously given to wicks by rinding them around a cylinder, and in this tate saturating them with the melted material; ther being drawn out and stretched in the e, they still retain the tendency to ase the spiral form, and as the candle is ed, the end of the wick coils out from wame and is burned without obstructing the Wicks made of 2 parts twisted in oppodirections and wrapped around with a fine mead are also used. Other expedients have een devised to effect the same purpose; and agenious and expensive machinery is in use in "ge candle factories for the manufacture of ricks alone. In the chemical preparation of earic acid it is usually the case that some lime ains in the material; this gradually accu-about the wick, diminishing its capiland obstructing the clear burning of the lle. The French chemists contrived a very renious method of getting rid of this by soakthe wicks in a solution of boracic acid. borax they absorb, uniting with the lime 1 other impurities, forms a clear fusible bead the top of the wick, which aids by its weight bring this down out of the flame.-An oute polish is given to candles, sometimes in chines contrived for the purpose, and somees by rubbing them by hand with a suitable -The relative illuminating power of difent kinds of candles and their proportionate ie has been investigated with great care by eral distinguished scientific men; but the ject admits of no general rules being estabed. The rate of consumption and intensity ght varies with the sizes of the candles, made e in other respects, and those of different infacturers, though apparently the same, in their properties. Common experience ie must determine the relative value of dif-

nt kinds of candles, and those which in one

country are the most economical may in another prove the most expensive.—Immense quantities of candles are used in mines, and in Pittsburg, Cincinnati, and other western cities they are largely manufactured of lard, hardened by mixture of wax, for the supply of the Lake Superior and other mining districts.

CANDLEMAS, the name by which the festival of the Purification, which the Roman Catholic church celebrates Feb. 2, is sometimes called, as candles are blessed on this day, and carried lighted in the procession which usually

takes place before the mass begins.

CANDLESTICK, an instrument or utensil to hold a candle or other artificial light. The first part of the word is of Latin origin, but the latter part (stick) appears to be Saxon. Candlesticks are of various forms and mate-A branching and highly wrought candlestick of gold made by Moses according to a divinely received pattern, was used in the ancient tabernacle, and afterward in the 1st and 2d temples. The 7 branches of the ancient candlestick were probably symbolical, and the can-dlestick itself is symbolically used in the scrip-tures of the New Testament, to represent that which is instrumental in holding forth the light, though it is not the light, and so it is a fit emblem of the church (Rev. ii. 5). The one candlestick of the tabernacle was restored in the 2d temple (of Zerubbabel) after the Babylonish captiv-The 7 lamps held by the 7 arms of the candlestick were kept burning by night, but only one of them by day. The branched form of the 7 arms is uncertain. The form seen on the arch of Titus, who carried away the candlestick with the other utensils of the temple after the sack of Jerusalem, if it is a correct representation of any thing, represents the candlestick made by Zerubbabel, and set in the 2d temple. The representation on the arch is that of an upright candlestick, having branches or arms in the shape of 8 concentric semicircles.

CANDLISH, ROBERT S., a prominent minister of the Free Kirk of Scotland. He was educated for the ministry of the Scotch establish-ment, but his connections with it were short. He was in 1834 settled in a parish of the presbytery of Kelso. From there he was transferred to the parish of St. George, Edinburgh. here, that memorable struggle began for church reform in the Scotch establishment, which resulted in 1848 in the division of the Scotch church, and the organization of the Free Kirk. In this struggle Dr. Candlish was a leader. He still retains his position as pastor of his congregation in Edinburgh (now Free St. George's), although urged to accept the post of professor of divinity in the Free Church college, and in 1855 the pastorate of a church in Glasgow. He is the author of a work on the atonement, "Contributions to the Exposition of the Book of Genesis," an "Examination of Maurice's Theological Essays," and of many pamphlets and single sermons. His last work, "Life in a Risen Saviour," was published at Edinburgh in 1858.

CANDOLLE, AUGUSTIN PYRAMUS DE, a Swiss botanist, born in Geneva, Feb. 4, 1778, died there Sept. 9, 1841. His father, descended from a noble Protestant family of southern France, acquired a large fortune by commerce. and was, during 20 years, a member of the government of Geneva. Augustin received his first education at the college of Geneva, where his extraordinary memory attracted much attention. Up to the age of 16, poetry and literature were his favorite studies; but subsequently he devoted himself to the study of natural history, especially of botany, in which he received his first lessons from Vaucher, and which became his favorite pursuit. Prosecuting his studies in Paris, he became the favorite pupil of Desfontaines, and was favorably noticed by Dolomieu. In 1799, De Candolle commenced the publication of his first work, Histoire des plantes grasses, of which the 4th and last volume appeared in 1803. At this period, cultivating the acquaintance of Cuvier, Alexander von Humboldt, and other eminent persons, he became a member of the philomathic society, and was admitted to the circle of learned men whom Berthollet gathered around him in his house at Arcueil in the interests of science. very able essays on botanical physiology and geography were contributed by De Candolle to · the memoirs published at Arcueil. In 1802 he held the chair of assistant professor to Cuvier at the college of France, and was elected honorary professor of natural history at the academy of Geneva. In 1804 he received the degree of doctor from the faculty of medicine of Paris, for which he wrote a thesis on the medicinal properties of plants, which was translated into German. In 1803 he made a journey through Belgium and Holland, following the seashore from Dunkirk to the island of Texel; and observing there the invasions of the sand, he wrote a remarkable essay "On the Fertilization of the Downs," which was published in the 13th volume of the "Annals of French Agricul-ture." The special study of invertebrated animals having drawn De Lamarck's attention from phytography, he intrusted to De Candolle the care of a new edition of La flore Française, which was considerably improved, and enriched by 6,000 additional species of plants, accurately described; a table of synonymous botanical terms; a very ingenious botanical synopsis; and all the additions and emendations required by the new developments of vegetable anatomy and. physiology. The work was not completed until 1815, but the appearance of the first volumes placed De Candolle in the foremost ranks of botanical science at that time. In 1806 he was commissioned by Cadore, minister of the interior, to visit all the provinces of the French empire, then including Belgium, northern Italy, and the countries on the Rhine, and report upon their agricultural condition. Six years were devoted to this task, and 6 successive reports, embodying the results of his observations, were published in the memoirs of the agricultural society of

the department of the Seine. In 140 tained, by public competition, the botany in the medical faculty of Mor and the direction of the botanical gar successor to Broussonet, of whom he biographical eulogium. In 1813 he p the 1st edition of his "Elements of (3d edition published by his son, Alp. Candolle, in 1844), a work remarkable profound analysis and scientific views of which was translated into German, and Spanish. In 1815 he was appoin tor of the university of Montpellier; the restoration of the Bourbons, he was to resign, and returned to his native cit he was received with great distinction. of natural history and a botanical, established in Geneva in 1817, espec him; and both were under his direconjunction with his son. In 1818! conjunction with his son. menced the publication of his large the natural system of the vegetable (Regni Vegetabilis Systema Naturale volumes only of this gigantic work a but he continued the same plan in a form, in his Prodromus Systematis Reg tabilis, scu Enumeratio Methodica L Generum, Specierumque, &c., which ap Paris in 1824, and following years. death, this elaborate work was conti his son, assisted by other very able t De Candolle estimated the number of species of plants to be 70,000, in his tithe unknown species he believed were numerous. He was a corresponding of the academy of sciences of Paris, 1828 he was elected one of the 8 associates; which honor had not fal botanist since the time of Linnaus. the works already named, he published ous other books and dissertations of imp De Candolle was not only distinguishe achievements in botany, but also by h spirit. In the early part of his life, he part in the formation of the philar. society in Paris, and of that for the pr of national industry, and on various of sions he manifested the same zeal for measures. He was a member of the r ative council of Geneva, and one of ti ties of the Helvetic diet. He was with several very delicate and difficult sions; and his Rapport sur les may subsistances contains many luminous political economy.

CANE. See Bamboo and Sugar. CANE, or Ken, a river of Bundelcui ing the boundary between Bengal Gwalior and Bundelcund territories. N. E. course of 250 m. over a rocky be into the Jumna.

CANE BRAKE, a term applied to sive growths of the arundinaria macr the most gigantic of the grasses, which the southern portions of the United Sta are to be found covering vast extents of

859.

In descending the Ohio river the t with the first indications of of Big Sandy, which river This part of the Ohio was distinthe plentifulness of game which was the vicinity by the rich vegetation The cane, however, has long since from that region, having been dehe cattle and the encreachments of but for many years after the settle-

e and Kentucky the cane furme food for cattle, where now it own even through tradition. Cane indicative of rich land, as they are ound in perfection in the most inexils, where, having obtained a footir more rapid growth they usurp the timber. In the southern pore United States the plant often height of 15 and 18 feet, with a 11 inch diameter. In more souths it is very much larger. It grows as an arrow from the root, taperly in a beautiful, thread-like, feathhe leaves commence at about ? of of the plant, and seem to be attly to the stalk, as the branches on grow, save the very top ones, are ible to ordinary observation. To as to the emigrant, progress through one of the most toilsome jour-

w undertaken. Each step is dis- dense vegetation which rises betruder like a wall. In places, the etimes pressed down and interlaced, becomes quite impenetrable. Under vorable circumstances the knife has used. Cane brakes are often many ent, always lessening in density as the high ground. They are favorite all kinds of game, which seek their her for protection or for the leaves The deer and bear are particularly young green leaves, and upon them is exceedingly fat. The cane stalks w, having no pith, and being divided few inches into sections, they are in the sun very combustible; and fined within the hollow sections, y the external heat, explodes with erable force, so that a cane-brake s the idea of a continued roar of ketry.

or Khania, the principal seaport of . 9,000. The harbor is not good, beto N. winds, though it is the best of It has several Greek churches, Momosques, and a Jewish synagogue. seat of a provincial council and gov-Greek bishop, and several European he town is supposed to be the Cydouty, and was conquered by the Turks

ial bottoms of Central and South in 1645. The town was visited by a formidable The plant is not unfamiliar in the earthquake in the night of Oct. 11, 1856, which ones, as its stalks are much used for caused immense damage and loss of life, not only in Canea, but also in other parts of Candia. A serious rising took place here against the Christian population, in June, 1858.

OANELAS, or CANELES, a small town of Mexico, in the state of Durango. The inhabitants are chiefly engaged in working some veins

of mercury in the vicinity.

CANETE, a seaport town in the N. part of Peru, is the capital of a province of its own name in the department of Lima. Pop. of the province in 1850, 17,658.

CANEY FORK rises in the Cumberland

mountains in Tennessee, and joins Cumberland

river at Carthage, Smith co.; length, 125 m. CANFOO, or CANFU, called by the Chinese Kanpoo, an ancient town and seaport at the head of a bay in the province of Che-kiang, China. It was originally the port of Hangchow, and 2 Arabian travellers who visited the place in the 9th century describe it as the port for all the vessels entering China. The stream which once flowed past it, however, has be-come choked up with sand, and it is now de-serted. Its trade has been transferred to Canton and Chapoo.

OANGA-ARGUELLES, José, a Spanish statesman, born in Asturias in 1770, died in 1848. He was deputy from Valencia to the cortes of 1812. After the return of Ferdinand his constitutional tendencies were so unwelcome to the court that he was banished to Peniscola, in Valencia, whence he was not recalled until 1816. After the revolution of 1820 he was appointed finance minister. While in this office he presented to the cortes a report on all the church and state property of Spain, and a paper on the condition of the Spanish revenue. In this remarkable paper he showed the insufficiency of the national income to meet current expenses, and that a very large deficit was annually accumulating. To meet this, he proposed an immediate loan, and to sell 4 of the ecclesiastical property, together with the small possessions in Africa, and to levy indirect taxes. These proposals created furious discussions, and, being hotly opposed, were adopted only in part. In 1821 Canga retired from the ministry, and in the following year was returned again as member of the cortes. From his seat he maintained his old attachment to the constitution, and insisted strongly on the necessity of reform in the finance department. When the constitution was suppressed, he fied to England, where he wrote a useful work, "Dictionary of the Spanish Exchequer, for the use of the Supreme Direction." He returned to Spain in 1829, but did not reënter upon public life.

He afterward commenced a history of Spain. CANGALLO, a town of Peru, on one of the head branches of the Apurimac, capital of the province of Cangallo, which has a population

of 20,027.

CANGE, Du. See Du Camer.

CANGIAGO, or Cambiaso, Luca, a Genoese painter, born at Genoa in 1527, died in Madrid in 1585. Invited by Philip II. to his court, to assist in the decoration of the Escurial, he painted in the ceiling of the church his picture of "Paradise," his most admired work.

CANGOZÍMA, or KANGOZIMA, a fortified seaport of Japan, situated at the head of the bay of Cangozima, in the island of Kioo-Sioo. The bay is 38 m. long, and from 6 to 12 m.

wide.

CANICATTI, a town of Sicily, on the Naro, pop. in 1850, 18,000, with extensive mines of

sulphur in the vicinity.

CANICULA, the dog star, also called Sirius, the brightest of all the fixed stars. The days when it rises and sets nearly at the same time with the sun are called dog days. It was much observed by the Egyptians, because the rise of the Nile occurs in the dog days.

CANINA, Luigi, an Italian archeologist and architect, died in Florence, Oct. 17, 1856, officiated for several years as professor of architec-ture in Turin, conducted the excavations at

Tusculum in 1839, and those of the Via Appia in 1848, and wrote on them and also on church architecture, and on various kindred subjects.

CANINI, GIOVANNI AGNOLO, an Italian painter and engraver, born in Rome in 1621, died in 1666. He was a pupil of Domenichino, and his martyrdom of St. Stephen and of St. Bartholomew are 2 admirable altar-pieces.

CANINO, PRINCE OF. See BONAPARTE,

CHARLES LUCIEN JULES LAURENCE, under LU-

CANIS MAJOR, a southern constellation containing the dog star.—Canis Minor, a northern constellation, whose appearance in the morning twilight gave the Egyptians notice of the

approach of dog days.

CANISIUS, PETRUS, a German Jesuit, born at Nimeguen, May 8, 1524, died at Freyburg, in Switzerland, Dec. 21, 1597. His original name of De Hondt (the dog) he Latinized according to the usage of the time. He took a prominent part in the council of Trent in 1545, was selected by the emperor Ferdinand I. for his preacher, and did not cease until his death to hurl reproaches against Protestantism. was the first who held the office of provincial, or ecclesiastical governor of the Jesuits in Germany, contributed powerfully in spreading the influence of the order in that country, and established Jesuit colleges at Prague in Bohemia, at Freyburg in Switzerland, and at Augsburg and Dillingen in Bavaria. He is the author of a larger and a smaller catechism. best edition of the former is that of Antwerp of 1587, and the most recent edition that of Landshut, of 1842. The smaller catechism (Institutiones Christiana Pictatis, sire Parcus Catechismus Catholicorum) has passed through more than 100 editions since its first publication in 1566, and has been translated into most modern languages, a new edition of the German translation having been published at Mentz in 1840.

CANITZ UND DALLWITZ, BAI sian general and statesman, born in April 25, 1850, served in the Hessian sian army, and subsequently, after a c had been concluded between the a and the Russian army, remained at: latter until 1813, when he returned He was afterward present as the P gate in the Russian campaign again and officiated as ambassador at Co Hanover, and Vienna. In 1846, a death, he took his place as minister affairs, until March 17, 1848, when he his resignation in common with the obers of the Bodelschwingh cabinet. 1849, Count Brandenburg sent him with a view of disposing the Aust ment favorably toward the Prussian new German league; but he failed to any thing. He was the reputed author flections on Strauss's Life of Jesus, peared at Göttingen in 1887. He w

author of a work on cavalry.
CANKER, a form of aphthous ulc the mucous membrane of the mo commonly seen in children, and nected with derangement of the dis ratus. The ulcers are small, circular, filled with a white thick exudation. surrounded by a circle of inflammati sensitive; they originate in small, painful prominences, which are sour into vesicles, hence the name "vesi matitis." When the ulcers are few they quickly disappear, their cicatrize hastened by astringent or caustic ap and by the exhibition of gentle aper unhealthy children the ulcers are apt fluent, and tend to spread to the cesor stomach; in such cases there may be able constitutional disturbances, reand alteratives. The predisposing thæ is any thing that enfeebles the sym exciting cause any irritation in the m foreign bodies, decaying teeth, or a The usual seat is on the inside of the and cheeks, and on the tongue, t may occur on almost any part of membrane. Billard represents th tions of the muciparous glands or in many cases they are too superfi of this explanation. When they we bilitated constitutions, in the c diseases, they form a painful anu complication, from their liability to e to take on a gangrenous aspect. Apto occur epidemically in certain seasc are generally only a local affection, a for their removal only local application of these is the nitrate of silver, which changes the surface of the ulcer, as rapid cicatrization; other favorite bu erful remedies are s ions of sulphate of copper, anu gents. The chlorate internally, is specially

superficial affections of the buccal mucous rane. The return of the ulcers may be d by attention to the general rules of especially to the diet, which should nutritious, and easily digested.

R WORM, the caterpillar of a nocenidopterous insect, or moth, of the sect, tra, Linu. (or phalanites, Lat.), of syverniada, and the genus anisopteryz. moths from which canker worms are d the females are wingless. The males antennæ with a downy edging on each wings are large and silky, and, when the fore wings entirely cover the hind fore wings are ash-colored, with a a mut on the front edge near the tip, and ir white bands crossing them, with ious along the sides and outer margin; wings are pale ash, with a blackish dot middle; the expanse of wings is about This is the common American speh is smaller and darker than the and is the A. vernata (Peck); there species, without the whitish bands usually come out of the ground about dle of March, sometimes a little earlier according to the season, and continue for about 3 weeks; in mild winters have been seen in every month from rch; the females are most numermu and winter, and the males most n the spring. The wingless females me trunks of the nearest trees, and are ed in a few days by the males, when the takes place; the eggs are placed on the clusters of 60 to 100, the number y mu by each female, and are attached wa wa proof varnish; soon after this the The eggs are hatched from the 1st ldle of May, at the time when the red we successoring and the young leaves of the begin to start; the young worms gather the tender leaves, and creep into the buds flowers; at first they make but small holes, it last devour all the pulpy part of the of the apple, elm, cherry, plum, lime, and native and cultivated trees. The worms considerably in color within the limits of species; when very young they are of brown color, with a yellowish stripe e, the belly whitish, and 2 bands of whor across the head; when fully grown ash-colored on the back, black on with a pale yellowish line below it; and all greenish yellow, others green with stripes on the back, and others claywhen full-grown they are nearly an ın l 1. After eating for about 4 weeks, w quit the trees on which they have ni was creep down, but most let themselves own from the branches by threads, as every seen by the roadsides; they burrow mately into the earth, from 2 to 6 inches wenth, according to the nature of the soil; te little cavities in the earth by turning

themselves round, and are changed into chrysalids within 24 hours, those of the females being the largest; the chrysalis state may continue until the following spring, or it may cease in mild weather in the autumn. They come out of the ground mostly in the night. Nature seems to desire to confine the canker worms to a limited space, as the females have no wings, and bury themselves within the spread of the trees from which they descend; but accidents have extended them to remote localities. canker worm has 10 legs, 6 anterior jointed ones, and 4 fleshy prop-legs behind; they are called span worms and loopers from their singular mode of progression; from the absence of the 3 intermediate pairs of prop-legs in the centre of the body, when creeping they arch up the back and bring forward the hind part of the body, and then, resting on their prop-legs, they stretch out to their full length in a straight line, and so repeat the spanning process.—The rav ages of canker worms are not very apparent until June, when they are most voracious; but then the leafless and apparently withered fruit trees and elms afford a melancholy spectacle. The best way of destroying the canker worm is to prevent the females from ascending trees to deposit their eggs; various methods have been resorted to for this purpose, consisting in the application of viscid substances to the trunk, immediately on the bark or on strips of cloth, paper, or board; tar is generally used, and it should be applied from November, and renewed daily as long as the insects come forth; tin troughs filled with cheap oil a few feet above the ground have been tried with success on a small scale; melted India-rubber has been re-commended in England. When the worms are on the leaves, they may be destroyed on small and choice trees by dusting air-slacked lime on them when wet with dew. Showering with a mixture of whale-oil soap in water, in the proportion of 1 pound to 7 gallons, will kill the worms without injuring the leaves or the fruit. By jarring the limbs many worms will descend with their silken threads, and may be easily killed. After they have entered the ground, they may be killed by digging or ploughing under the trees, scattering a few grains of corn, and turning a few hogs into the orchard; these animals will root up and devour the chrysalids, and will crush many with their feet. Canker worms are eaten by many species of birds; ground beetles also devour them; the potter wasp fills her clay cells with them as food for her young; ichneumon flies deposit their eggs in them, and the little maggots thence arising feed upon their substance; even their eggs are pierced by a small 4-winged fly, sometimes every one in a cluster being thus rendered abortive. No doubt beast, bird, and insect would be enough to keep the canker worms within their natural limits; but since the felling of the forests in which they naturally dwell, and the persecution of insectivorous birds which devour them, they seem to have increased in spite of

all man's destructive ingenuity. For fuller information on these pests, and the best means of destroying them, the reader is referred to Dr. Harris's treatise on the "Insects injurious to Vegetation."

CANNE, a village in the province of Bari, Naples. It occupies the site of the field of Canno, memorable for the defeat and fearful slaughter of the Romans by Hannibal, 216 B. C. The place is still called Campo di Sangue,

or "field of blood."

CANNEL COAL. See COAL

CANNELTON, a town on the Ohio river, Perry co., Ind.; pop. in 1853, 2,500. In the hills which surround it are found beds of cannel coal, lying in nearly horizontal strata 4 or 5 feet thick, and easily accessible. For the purpose of working these beds the American cannel coal company was incorporated in 1836, and to the improvements commenced by this company Cannelton owes its present flourishing appearance. Its mineral wealth, and its advantages as a manufacturing town, have produced such a rapid growth of population, that although 12 years ago it contained only 4 or 5 log cabins, it is now the largest town in the county, and contains several churches and elegant residences, a newspaper office, and a large cotton factory. This factory, which is called the Cannelton cotton mill, is built of variegated sandstone, and presents, from the river, an imposing appearance. It can manufacture 40,000 yards of sheetings per week. Fire-clay, limestone, and fine sandstone for building purposes, are found interstratified with

CANNES, a scaport town of France, pop. 5,557, in the department of Var. It is regularly built, lies on the road from Toulon to Nice, and has a fine promenade along the coast. The climate is unhealthy, but the neighboring country is fruitful in vines, olives, and oranges. An active trade is carried on in these products, and especially in sardines and anchovies. posite Cannes lies the St. Marguerite, one of the 2 isles in whose citadel the "man in the iron mask" was first imprisoned. Napoleon landed here March 1, 1815, on his return from Elba. A charming villa in the vicinity has been for several years the residence of Lord Brougham. An English chapel was creeted at Cannes in 1855.

CANNIBALS, a term probably derived from the Indian language, and of the same family as the word Caribee, or Carib. Columbus relates that he was in great fear of the Carribals, which word was probably corrupted into cannibals. signifies, as now used, eaters of human flesh. This practice is not, however, confined to the Caribs. The Greeks knew of tribes anciently who are human flesh, and called them anthropophagi. In modern times, not only the aboriginal Caribees, but various tribes of the South sea islands, are given to the practice, which they generally indulge upon captive enemies, CANNING, GEORGE, a British statesman,

born in London, April 11, 1770, died at the duke of Devonshire's villa at Chiswick, Aug. 8, 1827. His father, who was of an anci family of Warwickshire, died when he was only one year old, and his education was left to his mother. She supported herself by perform ing upon the stage, until she was again married. He was sent, at the expense of an uncle, to Eton school, and from the first evinced the most decided literary abilities. He wrom poetry before he was 16, and engaged with some companions in the pulsarious," which we periodical, called the "Microcosm," which we remaiderable time. From East he went to Christchurch, Oxford, where he gained high academical honors, and took a brilliant position as an orator. His vacations introduced him, by means of the friendship of Sheridan, to the conversation of Burke, Fox. Lord John Townshend, the duchess of Deven shire, and other leading personages of the wire party. It was through their influence, doubt less, that he relinquished his intention of sta ing for the bar, to devote himself to politica He had not, however, entirely adopted the political principles, and in 1793 be allowed himself to be brought into parliament, on the tory side, by Mr. Pitt. During the whole of his first session, he had the sagacity to refus from taking part in the debates, and to suresder his whole leisure to the careful study of the forms and practices of parliamentary assemblis. This enabled him, when he undertook to address the house, the next year, to do so with en and self-possession, and to produce a markel effect. His success, indeed, so convinced Part of his ability, that the skilful minister suffered him to conduct the argument in several of the most important subsequent discussions. 1796 he took office as under-secretary of state; in 1797 he commenced with others the publication of the political paper, the "Anti-Jacobin;" in 1798 he engaged in Wilberforce's plan for the abolition of the slave trade; in 1799 ke was appointed one of the commissioners for managing the affairs of India; in 1800 be ma ried Joanna, youngest daughter of Gen. John Scott, with a fortune of £100,000; and in 1861 he retired from office, to participate with Pitt and others in a most effective parliaments? war upon the administration. It was during the several subsequent sessions, while acting in exposition, that he acquired his highest reper tion as a keen, sarcastic, witty, and eloq speaker. Few men have appeared in part ment equal to him in showy declaration, or ting irony, and sparkling wit. On Pitt's retain to office in 1804, he was made treasurer of the navy. After a brief retirement in 1606, comsioned by the death of Pitt, he reappeared office in 1807, as secretary of state for fore affairs, under the administration of the dule of Portland, in which position be particularly tinguished himself by the ability and skill. well as by the spirited composition of his state papers. In 1809 he became involved is

growing out of the Walcheren expedi-with one of his colleagues, Lord Castle-which led to a duel, and afterward to ation of both parties, together with we are duke. During the session of 1812 nously advocated the Catholic emanciall, set on foot by Mr. Grattan; and the success of that measure of justice and stion was greatly indebted to the eloquent ce of Mr. Canning. He was the same rned to parliament from Liverpool, 24.5 gave him its support again in 1814, 25.0, and in 1820. In 1814 he was sent am-or to Portugal; in 1816 he became presboard of control; and in 1820, to ipating in any way in the trial of caroline, resigned his place, and trav-n the continent. In 1822, the responto him, and he had made his preparations England, when the sudden death of r post of secretary of state for foreign While in this position, in 1825, he reto recognize the independence of, and lomatic intercourse with the several american republics, and soon carried his nto effect. In 1827 he was appointed y to the dissatisfaction of the tory which, under lead of the duke of Wel-Lord Bexley, Viscount Melville, Mr. Peel, and others, deserted him, and comto solicit an alliance with the whigs.
ported by Lord Brougham, Sir
burdett, and Mr. Tierney, but had to
most formidable opposition, which equisition all the dexterity of his logic, the sharpness of his wit. Declaring finally, inimical to parliamentary reo the repeal of the test and corpo-, he was left without a party, and it vigor of his foreign policy alone which him in the ascendant. He spoke for time on June 27, 1827, and the mouth signed the treaty between Eng-France, and Russia, for the settlement affairs of Greece (one of the earliest which he wrote in his youth was on of Greece), when he retired for a uir to the duke of Devonshire's villa the "Examiner," which had not been to him in politics, because of his alwant of liberality in the conduct of affairs, yet closed the announcement weath with the following just and beaueciation of his character: "On Canus, it is unnecessary for us now to estimation of it has been often 1. He was the last of the rhetoricians. less an orator, he would probably a greater man. He followed, howthe tawdry fashion of his day; and the and finery could not disguise the thews snews they encumbered. Self-complacency a prominent feature of his character, and

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the nice description, Omnium qua diaerat feceratque arte quadam ostentator, was peculiarly applicable to him. But if ever vanity was excusable in man, it was excusable in George Canning, who, endowed with every choicest gift of nature, had risen from a low condition to the highest office in the state, and seen centred in himself the best hopes of the best men in the civilized world. We read in the tales of superstition of men who have made compacts with the fiend; a Faustus could hardly have desired to be more than a Canning. fine person for the love of women; a mind for the admiration of man; a golden tide of fortune which had its alacks, indeed, but no ebb; and a death which has abruptly left his character, as it was gilded with the glow of a world's best hopes." His "Speeches," with a memoir by R. Therry, 6 vols. 8vo, were published in London, 1828. He was buried in Westminster Abbey, near Pitt.—Charles John, viscount, a British statesman, son of George Canning, born at Gloucester Lodge, Brompton, Dec. 14, 1812; distinguished himself in the classics at the university of Oxford; represented Warwick-shire in the house of commons in 1886; and on March 27, 1837, after his mother's death (on whom the peerage was conferred in 1828), became viscount, and took his seat in the house of lords. In 1841 he was made undersecretary of state for foreign affairs, and subsequently chief commissioner of woods and forests. In 1851 he took a prominent part in the great industrial exhibition. In the ensuing year be became postmaster-general, with a seat in the cabinet under the Aberdeen administration. In 1855, on the resignation of Lord Dalhousie, he was appointed by Lord Palmer-ston governor-general of India, which office he still retains (Aug. 1858). The formidable sepoy rebellion broke out during his administration, and he was as much censured for his leniency at the beginning of the outbreak, as for his severity afterward. His proclamation, confiscating the property of the natives of Oude, elicitcating the property of the natives of Oude, elected a strong condemnatory counter-despatch from Lord Ellenborough, president of the board of control, and in the discussions in both branches of the British legislature was generally pronounced to be harsh and ill-advised.

OANNING, Sie George Strattord. See Strattord De Redouters.

OANNON implements of war for theories.

CANNON, implements of war for throwing heavy projectiles, as shot and shells, by the explosive force of gunpowder. The most ancient form of the cannon is the mortar, a short and wide-mouthed piece of ordnance, originally used for throwing stones, and now applied to casting bomb shells. Cannon for propelling balls are hollow cylinders of gun metal or bronze, an alloy of copper with 8 to 10 per cent. of tin, or they are made of cast iron; and some heavy experimental pieces have been made of wrough iron, but the number of this class in actual service is exceedingly small. The severe trial to which the metal is put when in use requires a

material of great tenacity and hardness—the former to withstand the force of the explosive fluid applied to burst open the gun, and the latter to resist the wearing action of the ball as it pounds down upon the surface it rests upon, when first struck and perhaps temporarily flattened by the force of the explosion; an indentation is thus produced, which continually grows larger, and is soon followed by another in the upper surface a little in advance of the former, which also increases till the gun is worn out by this lodgment, as it is called. Cast iron, in the improved methods of preparing it, combines the required hardness and tenacity with cheapness more perfectly than any other material. But as formerly manufactured it was very uncertain in its character, often being far from homogeneous in texture, and at the best estimated capable of resisting a force applied to tear it asunder of only 20,000 lbs. to the square inch, while the tenacity of bronze was rated at 80,-000 lbs.; and this beside was regarded as more to be relied upon for uniformity of character than cast iron.* Its inferior degree of hardness, however, to cast iron, and its great cost, limited its use to the smaller-sized pieces, for which it still continues to be employed; while for every thing above field pieces cast iron is the material in general use, and is likely to take the place of bronze altogether. In strength, it may safely be rated as equal or even superior to that of bronze, as will be seen by reference to the experiments referred to below. Wrought iron possesses the greatest tenacity, but is defi-cient in hardness. The greatest objection to its cient in hardness. The greatest objection to its use, however, is the difficulty of constructing large masses of wrought iron by continual reheating and forging, as new pieces are added and combined with those previously put to-gether, without causing portions to change their texture and undergo a partial crystallization, thus weakening the mass without any sign of this change being visible. All the earlier guns previous to the 15th century were made of wrought iron, commonly of hoops incasing bars of the same material. It was by the bursting of such a piece in 1460 that James II. of Scotland was killed. In recent times wrought iron has been used with other materials in experimental guns made by a variety of methods, as over a lining of steel and over cast iron; and it has been put together and

welded in the form of hoops. tenacity renders it the best materia there is no question but these exp be continued, till some method has of constructing a gun of perfectly ture of it, hardened within to resis ing action of the ball. The facility malleable iron is now melted and c produce cast steel suggests this a means of accomplishing this result. the improvements which have b all branches of industry, it is a m prise that cannon in general are no tially than those made 50 years inches diameter of bore is now the stead of 7 inches, their strength 1 portionably increased, for the rang is not so great as that of the old. In our own forts a 24-pounder wa mum size in 1820. In 1850 the were 10-inch bore, carrying balls Attempts have since been made larger pieces, but the difficulty of them enduring and safe in use rapidly with the increase of their c little is gained in these attempts. is constantly receiving the attention and practical men, and extended upon a large scale have been co years past under authority of differ ments. Our own has entered in searches with great liberality, and portant reports of the officers as engaged in the work have been 1 The principal of these is the volu ports of Experiments on the Streng properties of Metals for Cannon, wi tion of the Machines for testing the Classification of Cannon in Ser cers of the Ordnance Department, fessor Treadwell, of Cambridge, ! to the American academy an inmunication upon the same subject he argues the practicability of very large and efficient cannon, an method by which this may be done which will be found in this article. year 1841, by the regulations of the department, an officer is required t stant attendance at the founderies, w non are making, to examine and te before it is used, as also in the firbefore another is cast from it. Th has rendered it unnecessary to u proof charges in the final proof, do serious injury to the gun wing any indication of it; it has s in increasing the average strength non from 23,638 to 37,774 lbs. per The strongest piece of iron ever sample of Greenwood (Orange co., brought by the proper number ings to that degree of density which ed with the greatest strength. In the density was 7.304, and the tens lbs. per inch. This method of

[•] From the experiments of Major Wade upon the bronze cannon cast at Chicopee, Massachusetts, in 1850, it would appear that uniformity of character could hardly be attributed to bronze castings. Samples taken from different parts of the same gun showed a difference of density amounting to 90 lbs in the cubic foot, and the extreme variation in samples from different guns amounted to 34 lbs. in the cubic foot; the difference in tenacity from a capacity to bear astrain of 33,108 to one of 54,531, being as 100 to 236. "The materials used in all these castings are of the same quality, they were melted, cast, and cooled in the same manner, and were designed to be similarly treated in all respects. The gauses why such irregular and unequal results were produced, when the materials used and the treatment of them were apparently equal, are yet to be ascertained." The tendency of bronze to separate into alloys of different composition and strength, when cooled in large masses, was fully established in these experiments.

lting is a principle developed by Wade, U. S. A. The transverse some iron was found to be nearly 7 4 meltings and castings. From exmade at the South Boston foundery in er the same inspection, other curious developed, as that the cohesive power agmented by exposing the metal when an intense heat; "and that this an intense heat; "and that this reases as the times of exposure up to well ascertained) limit; and that, if seyond that limit, the strength of the hereby diminished." Experiments the same place upon the relative of cast iron bars 2 feet long and 2 are, made from metal kept in fusion eriods of time before casting, made it hat the cohesive power of the iron, ; can be shown by its capacity to restrains, is increased by its contin-

strains, is increased by its continin fusion from 100 to 160, or 60. The longest time that the iron was sion was 4½ hours. The results of the ts of casting cannon in pairs, one me hollow, both of the same mixture mear likely to cause the old method he cannon hollow at once, which

oned in Europe in 1729, to be reestable the universal practice of casting olid and then boring them out, to be By means of a stream of water in-

into the hollow core, as devised by lman, the cooling of the interior of is accelerated, while that of the ext is checked by surrounding it with. The metal is thus protected from ontraction and consequent strain rem differences of temperature. Two inch bore, of the same iron, possessing and strength in a high degree, were solid and bored, and the other hollow. gun burst at the 73d discharge; the se withstood 1,500 fires, proving inle by service charges. Another pair runs burst—the solid cast gun at the and the hollow gun at the 249th. ous facts also are observed respecting of leaving the guns a long time be-

Eight-inch guns, cast solid and 30 days, stood but 72 charges; one of bore, proved 84 days after being cast, harges; another proved in 100 days charges; and another that lay 6 years; cast stood 2,582 charges. The parist iron strained in the cooling by unraction, are supposed by Major Wade; themselves in the course of time, and position giving the greatest tenacity, at cannon ever made was constructed y Messrs. Horsfall of Liverpool, and to the British government. It is a ron gun, made by welding together bs of metal 3 feet long by 1½ broad, pon another in different directions, as was built up. The whole mass, ready

for boring, measured 15 feet in length, 8 feet 10 inches in diameter at the larger end, and 2 feet 10 inches at the smaller end, and weighed 26 tons. Its construction required the work of 7 successive weeks, day and night, and at times 40 men were employed at once about it. The hammer weighed 9 tons, and in using it especial care was taken, that the iron should never be struck when cold or partially so. It was first bored out 11 inches diameter, then 121, and finally 18 inches, for a length of 181 feet. No imperfection of any sort was discovered during the boring—no indication whatever of crystallization having commenced. When completed the weight was 21 tons 18 cwt., nearly 8 times that of the Stockton gun, which weighed 7 tons 171 cwt. Its outside diameter at the breech is 44 inches; at the muzzle 27 inches. Its capacity is for a ball of 302 lbs. weight, which, with a charge of 90 lbs. of powder, is expected to be projected at least 5 miles. An attempt was made the previous year by Mr. Nasmyth to make a much larger wrought iron gun than this—one that should throw a ball weighing } a ton 4 miles, with 225 lbs. of powder. By the unequal heating to which different parts of the great mass were subjected in the forging, the metal assumed in some places a crystalline form, by which it was so weakened, as to be considered unfit for use. It was proposed by Dr. Noed to endeavor to restore the fibrous structure by an-Prof. Treadwell regards these atnealing. tempts, which are still continued in Europe, "to make wrought iron cannon by the process of fagoting or piling, as a strange engineering de-lusion." The tenacity required for cannon cannot be uniformly retained in iron subjected to repeated heatings and hammerings. He proposes to obtain the strength of wrought iron by constructing a cannon of cast iron, the thickness of the metal being instead of the whole diameter of the bore, as usual. "Upon this body he places hoops of wrought iron in 1, 2, or more layers. Every hoop is formed with a screw or thread upon its inside, to fit a corresponding screw or thread formed upon the body sponding screw or thread to the gun first, and afterward upon each layer of the gun first, and afterward upon each layer. These that is embraced by another layer. These hoops are made a little, say the part of their diameters, less upon their insides than the parts they enclose. They are then expanded by heat, and, being turned on to their places, suffered to cool, when they shrink and compress, first the body of the gun, and afterward each successive layer all that it encloses." By making the hoops considerably smaller than the parts they surround, they accommodate themselves to the strain, and may, like all malleable bodies, be extended much beyond their power of elasticity without fracture. The screwing on of the hoops is regarded as essential, and also their being "spliced" to prevent their starting. The trunnions are to be welded upon one of the hoops. Cross fracture is guarded against by the cent iron body, and also by the outer rings breaking joints over the inner. Prof. Treadwell presents

a series of calculations, showing that a gun of 14 inches caliber, made in the manner proposed, and carrying a spherical ball of 874 lbs., will bear 68,960 lbs. to the square inch exposed to the fluid, or the pressure of 4,264 atmospheres. He also calculates that a pressure of 32,000 lbs. to the inch is required to give to a 14-inch shot an initial velocity of 1,600 feet a second, which is only half what the gun will bear; while, with a gun of this size, made of cast iron alone, its power of resistance is limited, according to the old estimates of the strength of cast iron, to 20,000 lbs. to the inch, or less than ‡ that which may be required to obtain the velocity. He further calculates that a cannon of any size may be thus constructed capable of sustaining the pressure of 4,264 atmospheres, and one so made of 80 inches diameter-if such were practicable—would have precisely the theoretical capacity of giving to its spherical ball, weighing 8,670 lbs., the velocity of 1,600 feet a second. A patent has been recently granted to Capt. Blakely, of the royal artillery, England, for constructing cannon upon this principle, using cast steel instead of cast iron for the body. M. Thiery has also proposed a somewhat similar method, viz.: lining the interior of the mould with bars of wrought iron the length of the gun, set on end, and arranged at intervals of 8 inches or thereabout. When the cast iron is run into the mould the bars adhere to it, and the texture of these is not materially affected, excepting being partially changed to steel on the surface next the cast iron. The gun is then to be encased in hoops of wrought iron shrunk upon it, and the trunnions welded to one of them.—The Lancaster gun differs from other cannon in the bore being shaped very much as in some rifles, in a twisted ellipse or an elliptical The form of the ellipse, however, in the rifle is but faintly expressed in the 2 opposite twisting grooves; in the cannon the greater proportional size of the grooves gives the elliptical form. These guns were found in practice in the Crimea to have an immense range, but they were uncertain in their aim, and enormously expensive, each discharge costing £20. Some of them burst in the most destructive manner; but whether this was owing to their being too light for their charge and weight of ball, or to the tendency of the ball to go straight forward, and thus wedge itself in attempting to pass the very gradual curve of the rifled bore, is undetermined. The principle of its construction seems to be a good one. The gun invented by Colonel Cavalli, of the Sardinian army, is somewhat upon the same principle. It is doublegrooved, giving about a three-quarter turn to the projectile. This is of an oblong form, of cast iron, pointed at the top, convex toward the powder, and having 2 ribs running lengthwise to correspond with the grooves in the gun.-The greatest improvement recently introduced in the form of cannon, is in reducing the proportion of metal between the muzzle and the trunnions, which is found in guns of the

common mould to be largely in weight is thus placed about the It the strength is needed. The g the United States for the new are regarded as the most perfect constructed. Their peculiar fo posed by Capt. Dahlgren, of the U. whose name they are generally length, range, and weight, the 8-in of Dahlgren does not materially di 32-pounder, regarded as the best s on board ship. Those of greater I portionally larger, with range also ally increased, as appears by the fo from the Ordnance Manual:

Length of bore.

Weight
Eange at 5° elevation, 9 feet above water
line, charge 9 lbs.

A 10-inch Dahlgren has a length of 1 The casting of heavy cannon is rare at the blast furnaces where the from the ores. The quality of me tained is too uncertain, and is alv in strength to the same iron after several times remelted. The pig the smelting establishments are 1 grades of foundery iron, from the toughest gray metal to the hardest shade, and these are mixed at th and remelted according to the jude founder. As in the casting of l furnaces—reverberatory or cupol ally employed to furnish the single casting, each supplying, it ma tons. The metal, as it runs from they are tapped, flows through ch sand into a reservoir, from which channels in the sand lead over the moulds, which have been prepa moulding bed or floor of the found liquid iron flows down these runner are slowly and steadily filled, with conveyed with the metal to distur settling, or to injure its texture. sult is, perhaps, better attained in guns, the liquid metal being introd mould at their lower portion. Se are usually moulded in the san mould is in sand enclosed in a cast-iron, called a gun box, made which are bolted together as the the crane one upon another in the shape is a clumsy imitation of the form within. The sand which box receives its impression for tern, between which and each ing section of the case, in in small quantities at a til with clay to the proper of flat surface of each block on which is to coincide with t

ckened over with a wash of fine charcoal and ved water, to prevent adhesion as the differions are moved. By keeping the transs sections slightly separated as the mould is d, the sand projects a little, so that no can find its way between the sections makifin. The gun box stands in the pit on its end or breech, the gun head, or portion beyond the mouth of the piece, and wel off in the finishing, being below be lower section, in which is the mould of the reching and the cascabel, or extremity of the un, is entire; the upper sections, commonly 5 number, are in halves divided longitudinally sch half containing the mould of one-half the length of its section. These halves bolted together by outside flanges LTG BES w manner that the sections are secured The trunnions, which make the axle thich the cannon is supported when in use, moulded in the second section of the gun we shove the breech, lateral projections in the outsfording room for the cylindrical cavities in ald to be filled by the trunnions. w of the mould is brought into a perfectly position by adjusting the box as the une indicates. Sometimes the whole is ted by ramming sand around the box, at an open space is left around, which is word over above to retain the hot air, preventing rapid cooling. The tem-The tem are of this space is sometimes increased skept burning in it for several days g. Such is the usual method of sould cannon. By the improvement inced by Lieut. Rodman, guns are now sollow of greatly increased strength. A we formed on a tube of cast iron, which tube swater-tight and close at the bottom, is placed n the axis of the mould. Into the bottom of through a smaller one placed in its u, a current of water is discharged, and as-*bove the top of the piece constantly cooling the interior. - When the cansken out of the mould, it is placed in a being secured at one end by the square were cast at the end of the cascabel, and the ther placed in a collar a little back of the muzde, in which it can revolve. The first operation to cut off the head, which is 2 to 8 feet long. I'm object of this addition to the gun is, that er portion of the casting, usually the may be rejected. The piece, if solid, vored, a steel cutter fixed at the end of made to penetrate, as the gun slow-in its frame. When the boring is aves in its frame. I, the gun is finished upon the outside wols used in turning iron. It is then of the frame, the square block is cut cascabel with a cold chisel, and the us are dressed with the same instrument. wochhole is drilled with a stock and bit. he piece is then ready to be proved, which is e in this country by testing the strength of vylinder of the iron an inch in diameter and

2 inches long, cut out of the cannon, formerly from one of the trunnions, but now from the barrel near the muzzle. The specific gravity and other properties of the sample are carefully noted, and these, together with the trials to which it is subjected, and the hardness of the metal determined by a very exact method, give correct indications of the strength of the gun, without the necessity of submitting it to extreme proof by firing with constantly increasing charges, until the piece is destroyed. Indeed, to such perfection have these proofs been brought, that guns have been selected as of inferior quality from among a large lot, which, on reference to the books of the foundery, were found to have been the only ones of the lot made of hot-blast iron. According to the indications furnished by the tests, several guns are usually taken from each large lot of them, to be submitted to extreme proof—the selection being generally of those that appear to be the poorest, best, and intermediate qualities. These are fired commonly with charges of powder equal to 1 the weight of the ball, with one shot and one junk wad over it. The firing is continued, unless the piece previously bursts, to 500 rounds. Then 1 ball more is added with every discharge till the bore is filled. The powder is afterward doubled in quantity, and the bore When it filled with shot at each discharge. bursts, pieces are selected for further examination from the breech, near the trunnions and the chase. Guns are also tested by hydrostatic pressure, water being forced into the bore with increasing pressure, till it sometimes bursts the piece, or brings to light its hidden defects by opening the small fissures, that were concealed in the metal. It is not uncommon for it to appear upon the exterior of pieces, of which the thickness of the metal is 4 inches, exuding through as a thin froth, which collects upon the outside and forms drops and little streams. By this method, the exact pressure applied is known and may be gradually inceased to any desired degree. Sample bars are also cast together with the cannon, which furnish some indication of the strength of the metal. The different rates of cooling of the large and small mass, however, render their qualities somewhat dissimilar.—Bronse cannon are cast in a mould of loam, the pattern for which is prepared as follows: around a tapering rod much longer than the gun, soft rope is wound enclosing it entirely in its coils. Over this, when brought very nearly to the outer form of the intended body of the gun (not in-cluding the breech and the head), is plastered a layer of prepared clay or of plaster of Paris, and by causing the rod to revolve against a profile board having the exact outline of the gun, the model receives its shape. The models of the trunnions are then made of plaster and attached to it, and the whole is thoroughly dried. It is then washed over with a preparation of ashes or other substance to prevent adhesion, and several coatings of putty loam are laid on and dried till they resist the point of a knife.

These form the first layer of the mould. Other layers of moulding loam are added, till the whole thickness is about 21 inches. The mould is then encased in iron bands, and more loam is laid on over them, to the thickness in all of 4 or 5 inches. Over this are put on more hoops and more loam again. The tapering rod is now drawn out together with the rope and the first coating upon it, and the plaster models of the trunnions are removed. The breech mould is prepared in a similar way, and set in an iron casing called the goblet mould, which supports the whole mass. The mould for the head is also made in the same manner. After being thoroughly dried, the 3 pieces are set up in the pit, firmly secured together, and the joints well plastered. Several moulds are usually prepared at the same time, and arranged in the same pit. The spaces around them are filled in with earth which is carefully rainined; the runners for the metal to flow in being made in this case to lead over the top of the head, as in casting iron guns. Such is a general description of the French method of casting bronze cannon, which is somewhat varied in this and other countries. cast, the processes of boring and finishing are similar to those applied to cast iron guns, when they are made solid .— (See ARTILLERY, CASTing, and Gunnery.)

CANNON, a central county of Tennessee, area 220 sq. m., drained by Stone's river and the Caney fork of Cumberland river. The surface is uneven and the soil generally fertile. Productions in 1850, 554,497 bushels of corn, 66,325 of oats, and 70,077 lbs. of butter; number of pupils in the public schools, 990. Capital, Woodbury; pop. 8,982, of whom 843 were slaves.

CANNONADE, in a general sense, the act of firing artillery during a battle or a siege. As a technical expression in tactics, a cunnonade means an engagement between 2 armies in which the artillery alone is active, and the other arms are either passive or do not, at least, overstep the bounds of mere demonstration. The most celebrated instance of this kind is the cannonade of Valmy, in 1792. Kellermann awaited the attack of the Prussian army on a range of heights, his artillery placed in front of his troops. Prussians drew up on the opposite range of the hills, brought forward their artillery, and the cannonade began. Several times the Prussian infantry formed for the attack and advanced a little; but, the French remaining firm, the Prussians withdrew again before coming within musket range. Thus the day passed, and the next day the Prussian army began their general retreat. In most general engagements such cannonades occur. They often form the 1st act of the performance; they serve to fill up the intervals between a repulsed attack and another attempt to dislodge the enemy; and they form the finale of most drawn battles. In most cases they serve more for purposes of demonstration than for any thing else, causing by a great waste of ammunition at long ranges that almost incredibly small proportion of hits to misses which characterizes the artillery practice of modern battles.

CANNSTADT, a German town in the kingdom of Würtemberg, on the Neckar, the ass of a superior bailiwick, a favorite resort of the people of Stuttgart, the distance from the capital being only 8 m.; also much frequented as a watering place, the 40 mineral spring in the town and its vicinity possessing a ligh reputation for their salutary effect upon bowd and nervous diseases. King William cannot a beautiful Cursaal to be erected near the pricipal spring, the Wilhelmsbrunnen. Two establishments for cripples and scrofulous persons are favorably known abroad, and the mineral springs in the neighboring village of Berg se also resorted to. The Neckar is navigable ser Cannstadt, and affords facilities for an active transit trade. Manufactures of cottons, woollens, and tobacco flourish, and the culture d the vine, as well as other agricultural products, diffuses prosperity among the population. In July, 1796, a battle was fought near the town. between the French and the Austriana. Upon the ruins of an old feudal castle of the hor of Wurtemberg, which bore the same same, a Grecian temple, with the mansoleum of his queen, Catharine, was erected by King William in 1819. Many Roman antiquities have been found in the vicinity.

CANO, Alonzo, surnamed El Raciosene, Spanish painter, sculptor, and architect, born in Granada, March 19, 1601, died there, Oct. 5, 1665. He became so distinguished in each these arts that his countrymen called him the Michel Angelo of Spain, although the title in due more to his versatility than to any resea blance in point of genius to the great Floren-tine. His "Conception of the Virgin," in the church of San Diego, at Granada, is considered his masterpiece. His works in sculpture and architecture are also numerous. He was acceptemporary of Velasquez, and in 1639 was appointed court painter to Philip IV. His ungover ernable temper on various occasions broughts him in danger of the inquisition, and he was once put on the rack on suspicion of having killed his wife in a fit of jealousy, but was subsequently absolved from the charge. On the occasion his right arm was exempted from torture, as being excellens in arts. As an illustration of his whimsical character, it is related that on his deathbed he refused to take the cruciffs from the priest on account of its bad workman-

ship.

CANOE (Fr. canot), a boat such as is built by savages, either by hollowing out a log or by stretching the skins of animals or the burk of trees over a light frame. Log canoes are made of large size from the white pines of the north and the cottonwood tree of the north and are used principally for transporting fragility upon rivers and smooth waters. Small can serve the northern coyageur for abort exersions; but for long expeditions, and arous

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overland from one river to another, is and rapids, the light birch canoe of is, which is easily carried upon the lopted. These canoes are made of the the white birch (betula papyracea) over light frames of white cedar. A ected of good size and sound bark, great care the covering is stripped off ce entirely around the tree, and someer than the intended canoe. This is to the frame already set up in the I neatly fitted over it, the proper curthe bottom and sides being secured flat strips of cedar, which are placed ribs, and are attached at each end gitudinal pieces which make the gun-articular care is taken that the whole all be unbroken, without a seam or t up the sides pieces of bark are let in or cut out, as the shape of the canoe ire, the edges being sewed together igs cut from the roots of the cedar, ad over with tar and rosin, or with a ared from the gum of the balsam fir. ne means the canoe is kept in repair in use. Birch canoes made of bark in the winter, last better than those "summer bark." They are readily ned by their darker color, and are e highly valued. Canoes of this kind f all sizes, from those which may be of the water and carried by children, f 30 feet or more in length, in which Indians may undertake with safety peditions. A canoe of 16 or 18 feet nay be carried for miles by an Indian reat exertion; and placed again in the will convey him and his squaw and with all their worldly possessions. unsteady in the water that one slips er a white man, unaccustomed to e suddenly than his feet placed unexpon smooth ice; the Indian rides feardown the foaming rapids, and venut into the salt water, where he may earing the blackfish and the porpoise, th dancing like a feather upon the I managing to lift their bulky, slipasses into his frail bark, with which safely to the shore.

I (Gr. κανων, a rule). Collections of the authors were called kavaves, models As applied to the sacred writings, the been used with various shades of Sometimes it signified merely a catpersons or things belonging to the of books which were used in the 1 a more restricted sense it designated red list of all the books appointed to public assemblies of Christians. In t times its significance was narrowed and it was applied only to the collecvine and inspired writings which are er's rule of faith and practice. ne Old Testament was formed gradually ourse of years. The thought of gather-

ing together all the sacred books seems to have been suggested not before the time of Ezra, at which period the prophetic writings were closed and the historical works completed. It is sup-posed that the first 2 divisions, the "Law" and the "Prophets," were finished at or soon after the time of Nehemiah, while the 8d division, the "Holy Writings," including the book of Daniel, is believed by many recent critics to have been open some time longer. (See Bible.) There is no knowledge respecting the author of the canon, and none respecting the precise date of its composition. The first mention of the collection is made by the son of Sirach, 180 B. C. Josephus speaks of it in its present form, enumerating all the books, and declaring that "during all this time which has passed, no one has dared to add to, to take from, or to change them." We may consider it to be a full collection of the books which the Jews, for reasons of their own, esteemed sacred or inspired. In their regard Moses held a place above all the prophets, being endowed with a peculiar inspiration; of course the writings ascribed to him were placed at the head of the compilation. The prophetic books and the compositions of David may have owed their place to the personal character and reputation of their authors. Others derived their title to inspiration from the nature of their contents, or from their great antiquity. Others again earned a place through the names attached to them, and were venerated as the compositions of Solomon, Ezra, Daniel, or Nehemiah. To whatever date we assign the completion of the canon, whether with the later Jews we suppose it finished after the time of Malachi (about 400 B. C.), or with modern scholars, later than Daniel, it is certain that this date was regarded as the close of the period of inspiration. For this reason, and likewise, probably, for the reason that they were not composed in Hebrew, the productions of later Jewish literature were not kept with the older books in the temple, nor included in the collections of sacred writings used for public reading. These works were held in higher esteem by the Greek Jews than by the Jews of Palestine, and the Alexandrine version, which the former regarded as inspired, had a large supplement containing Esdras, Tobit, Judith, Esther, Wisdom of Solomon, Ecclesiasticus, Baruch, Song of the Three Children, Susannah, Bel and the Dragon, These compositions 1, 2, and 8 of Maccabees. were not, however, even by the Greek Jews, considered as a constituent portion of the canon, but rather as an appendix to it, holier than any vulgar literature, and valuable as containing moral and religious instruction, but still not so peculiarly sacred as to be allowed to stand in the same rank with prophetic writings. The early Christians, being unacquainted with the Hebrew language, availed themselves of the Greek version, and naturally made use of all the books it contained, sometimes quoting the apocryphal books as if they were canonical; but when the subject became one of serious

study, the scholars generally accepted the judgment of the Jews. Still they were quoted with deference, used publicly, and in one or two instances spoken of as authoritative and divine .-The canons of the Greek church closely correspond with each other. The most ancient, that of Melito (A. D. 177), contained all the Jewish books excepting Esther, but excluded the apocrypha. With this catalogue agreed those of Gregory Nazianzen (A. D. 370), and of Amphilochius (A. D. 370). Origen's list includes all the Hebrew books, and the apocryphal Baruch. With him agree Cyril of Jerusalem (848), the council of Laodicea (363), and Epiphanius (368). Athanasius omits Esther, and retains Baruch. The apostolical canon, of uncertain date, admits 8 books of Maccabees, 1 of Judith, and recom-mends instruction in Ecclesiasticus. The catalogues of the Latin church coincide with the Jewish canon, in so far as they exclude no books reckoned as canonical by the latter; but 2 of them admit writings which the Hebrews rejected. Thus the canon of Augustine (A. D. 375) embraces the books Tobit, Judith, Wisdom of Solomon, Ecclesiasticus, 1 and 2 Maccabees; and the 3d council of Carthage adopted the same enumeration. Jerome, however, rejected these productions, chiefly, it would seem, because the number of canonical writings must be limited by the number of letters in the Hebrew alphabet. "The church," he said, "reads them for the edification " The of the people, but not to establish the authority of the doctrines of the church." The Catholic church, following the old Latin version, accepted the books regarded by the early Jews as apocryphal, declaring them to be canonical by a decree of the council of Trent. But the theologians of the reformation, Lu-ther, Carlstadt, Flacius, and John Gerhardt, went back to the Jewish canon, and considered the apocryphal writings as independent and inferior collections. Some Catholic doctors, as Bern. Lamy, have made a distinction between the 1st and the 2d canon, the 1st only being of absolute authority.-The canon of the New Testament was formed upon substantially the same principles as that of the Old. For a century the Hebrew writings were the only Bible the Christians had. The letters of the apostles were publicly read in connection with the ancient Scriptures, and were listened to with the same respect. Gradually such epistles as were addressed to neighboring churches were gathered together in small collections; and later, other works of a historical character, which might recommend themselves by their intrinsic worth or their reputed authorship, were received by such communities as came in possession of them, and were used in public instruction. Many years clapsed before a complete and authorized collection was made. The earliest trace of a collection of New Testament books is found in that which Marcion had in the middle of the 2d century, consisting of 10 epistles of Paul, and a gospel supposed to have been St. Luke's. Half a century later the principal Christian

teachers, Irensous, Clement of Alexandria, and Tertullian, agreed in receiving 4 Gospel, the Acts of the Apostles, Paul's 13 Epistles, the Is Epistles of Peter and of John, and the Aponlypse. Respecting the Epistle to the Hebren, Philemon, Jude, and 2 John, a difference of opinion was raised. At this time, the book were contained in 2 separate collections on historical, called the Evangel, the other epito-lary, called the Apostle. The next stage in the development of the New Testament canon is indicated by the ancient Syriac translation knows as the Peschito, which belongs probably to the early part of the 3d century. This co-tained, in addition to the books acknowl-edged by Irenseus, Clement, and Tertulian, the Epistle to the Hebrews, and the lets of James; but it omits the Apocalypse, which dogmatic prejudices were bringing into defavor. An ancient fragment, as old, probably. as the year 200, which was found a century and a half ago in the Ambrosian library at Yile, by Muratori, and is thence called the cases of Muratori, contains a mutilated catalogue d New Testament books then received. In this list are mentioned the Gospels, Acts, 13 Pauline Epistles, 2 Johannean, Jude, and the Apocalype. James and Hebrews seem not to have been included. 1 Peter is spoken of doubtfully, and words half commendatory are applied to the "Shepherd" of Hermas. The accepted Scriptures of this age were held to be of divine authority. Origen was the first to divide the whole extant literature of the Christians into class, distinguished as the genuine, the spuriou, and the mixed. The genuine were those written by inspired authors, as vouched for by trustworth! tradition; the spurious were those that had no claim to apostolical origin, either from externa evidence or internal character; the mixed were such as were of doubtful or contested authority, or had met with only a partial reception. The 4 Gospels, Acts, 12 Epistles of Paul, 1 Peter, 1 John, probably also the Apocalypse, he held to be indisputably genuine and sacred. In respect to Hebrews, James, 2 Peter, 2 and 3 John, and Jude, his mind was in a state of greater or kee uncertainty. He appears to waver also in his judgment upon the Epistle of Barnahas called it a catholic epistle, and upon the Shepherd of Hermas, which, in one passage, he declars to be in his opinion "divinely inspired,"—so factuating in that age was the line that divided the canonical from the apocryphal writing Origen's opinion, however, was too individual to be received as representing the persusion of the church. Eusebius the historian, in theenly part of the 4th century, prepared a catalogue of the New Testament Scriptures, based upon carefully studied traditions, both oral and written. In his classification the Gospels, Acts, 14 Epistles of Paul, and the first Epistles of June and Peter, are ranked as genuine and universal; acknowledged productions of apostles. Among disputed books he mentions the Epistes of James and Jude, 2 Peter, 2 and 3 John, which he

s by the title of catholic Epistles. Other now by all deemed apocryphal, he spurious. To the Epistle to the Heid to the Apocalypse, Eusebius hesitates a place, being himself inclined, it em, to receive them into the first class a Scriptures, but deferring to the popunt which was against them. The

nt, which was against them. The the Greek church, that of Laodicea -'9), that of Cyril (A. D. 848), that usius (A. D. 826), and that of Gregory a (A. D. 370), agree in accepting all s that compose our present collection, e Apocalypse. Athanasius alone, and Cyril, included this. The catholic were by this time generally received, to with entire cordiality. It is clear canon of the Greek church was not y closed at the end of the 4th century. n church, which opened the canon of Testament to the admission of the apobooks, enlarged the canon of the New nt by the reception of the Epistle to ews and the Apocalypse, and thus comit, pronounced it closed. The council decreed (A. D. 893) that the books of Testament be 4 Gospels, Acts, 18 Episaul, 1 to the Hebrews, 2 of Peter, 8 of f James, 1 of Jude, and the Apocalypse

Jerome, speaking of Hebrews, says: o matter whose it is, for it is the proof an ecclesiastical man, and is daily shed by being read in the churches." same reason he would admit the ApocThe council of Carthage repeated ord for word, in the year 897, the rule by that of Hippo, only ranking Hebrews among Paul's 14 epistles. A few years a catalogue of the sacred books was by a decree from Pope Innocent I.,

be regarded as deciding finally the die Latin church. There were still ss of opinion as to the Epistle to the and the 2d and 3d of John; but there com for change. The catalogue was up to the period of the reformation, tanding the objections of Cosmas, 585, 550, Isidore of Seville, 636, and Nicephcriticism of John of Damascus, who reckon the Apostolical Canons among Testament books, and the judgment of I of Aix, 789, which would exclude the The chiefs of the reformation in ings, and the two Protestant churches in abols, in defining which the canonical s were, inclined to follow what they asbe the testimony of the Holy Spirit in ts rather than the consent of the church sed in ecclesiastical decrees. Luther octrinal test, and applied it to the exclulebrews, James, Jude, and the Apocait his practice was peculiar to himself. time Protestant theologians have paid ention to critical studies, and have disd themselves by efforts to establish the

genuineness of the New Testament writings upon grounds purely historical. of Trent, 1545, merely confirmed the canon of Hippo and Carthage, condemned all dissent, and set the seal of commenical authority upon the received collection. This mandate of Rome had its effect upon the Greek church, which forthwith canonized the Old Testament apocrypha, and soon laid aside its doubts respecting the Catholic Epistles and the Apocalypse. Thus the great body of Christians, Catholic and Protestant, east and west, with the above exceptions, accepted the same sacred Scriptures. Small sections among the Protestants have dissented. The Socinians, in the 16th century, adopting methods of investigation severely critical, have thrown doubts upon several writings whose genuineness had been left unquestioned for centuries. The same process has been continued to the present day by theologians of different schools, especially in Germany. The Swedenborgians, discarding critical methods entirely, and receiving no dogmatical writing as inspired or canonical, set summarily aside the decrees of councils and the verdicts of scholars, and hold that the 4 Gospels and the Apocalypse are the only Scriptures of the New Testament written under the full influence of the Holy Spirit. They also deny inspiration to the purely narrative and dogmatic writings of the Old Testament, Chronicles, Ezra, Nehemiah, Esther, and the books of Solomon; finding a broad line of distinction between these and the others in their doctrine of correspondences.

CANON, an ecclesiastical dignitary who possesses a prebend, or revenue allotted for the performance of divine service in a cathedral or collegiate church. Canons were originally priests who lived in community, appointed to assist the bishop in his duties, and supported by the revenues of the bishopric.—SECULAR CANONS are those who, in progress of time, have left off the custom prevalent in monasteries of living a community life, and have the privilege of enjoying the returns of their respective benefices. The obligations of the canons are contained under the 8 following heads: 1, the duty of residing in the place where the church they belong to is situated; 2, assisting at the canonical offices which are celebrated in the church; and 8, attending the meeting of the chapter at the appointed times. They cannot be absent from their benefices for a longer period than 8 months, and are obliged to sing or recite their office in choir. In their collective capacity they are called a chapter, and form the council of the bishop. In each chapter there are dignitaries. The name was originally applied to all the clergy, but was afterward confined to those who were connected with the cathedral church, or to specially privileged churches.

CANON, in music, a species of vocal composition in several parts, in the form of a perpetual fugue, in which the voices begin at intervals, one after the other, so that each voice sings the strain of the preceding one and all

sing different portions of the melody at the same time. It differs from the ordinary fague in requiring that the subject be repeated by each part.

CANON, a Spanish word, signifying a tube, flue, or pipe, now in common use in the territories bordering the Mexican states, to designate the deep ravines, or gulches, worn in the hills and mountains by descending torrents of water.

CANON LAW, the public and general code of laws of the Catholic church. This church claims to be a perfect visible society, containing within herself all that is necessary for a complete and in-dependent organization. Hence she has her own rulers, rights, and laws. Some of these laws given by Christ himself or by the apostles in his name, are held to be immutable; others have been promulgated by the ordinary ecclesiastical authority, and can be modified or abrogated by the power whence they derive their force. The discipline or practice of the church is therefore partly unchangeable and partly changeable. The changeable discipline, deriving its origin from the ordinary ecclesiastical power, has been different in various times and places. An immense organization extended over the face of the earth must of necessity, while retaining on all essential points the same practice and laws, admit in minor things of those local differences which are required by circumstances. Hence, beside the general law of the church, there are in every particular country peculiar and local rights, customs, and practices, which form what is called the code of particular or national churches. These, however, are subject to the supreme authority, which can at any time annul them, should such a course be judged expedient or necessary. Thus, beside the general law of the church, Roman Catholics in the United States are regulated by the decrees of the councils of Baltimore and of the provincial councils held in the different provinces which have been approved of by the competent authority.—There is also another source of difference in ecclesiastical polity. From the very beginning the eastern and western churches, although agreeing in the same faith and in the observance of the same moral law, and looking upon each other as integral portions of the same church, have yet observed on many points a totally different ecclesiastical discipline. This state of things continues to the present day, and the oriental churches in communion with Rome retain their own liturgy, and their peculiar observances. Hence, the canon law of the Latin or western church is different in many points from that of the Greek or eastern.-The divisions of ecclesiastical law can be marked as fol-1. The general law of the church, bindlows: ing all her subjects of all nations and countries. 2. Laws peculiar either to the oriental or Latin church. 3. Laws that are observed by only one particular or national church, belonging to either of these two divisions. 4. Diocesan regulations which have no force out of the bishop-

ric for which they are made.—Can comprises the general laws for either of churches, eastern or western. Thus the canon law of the oriental and of a in church. To the knowledge of this t onist must unite an acquaintance with t ticular laws and customs of his own province, beside that of the statutes w ocese to which he belongs, in o to i to apply his general rules and print practical cases which may fall under zance. The authority whence ecclesismanderive their force, is held by Catholica vested primarily and principally in the vicar of Christ. General co sess the same authority. These of all or of the greater number on the of the church. The decrees of a leg general council, that is, one presided over pope either personally or through his rep ative, when ratified by the same authoribinding over the whole church. These two founts of authority from which all | laws derive their vigor. Patriarchs vincial councils legislate merely for the of the church under their jurisdicti legislation being subject to the approb-rejection of the pope. Bishops have to make laws or statutes for their own these are sometimes promulgated in synods, which are composed of the priests of the diocese.—As the discipline church has not always been the been and is different in diffe places, so, too, canon law has here in uniform. Many regulations which was of force have been subsequently modified tally abrogated. Hence the chief diffic the study of canon law is to discern b that which is in force and that which he into disuse.—The laws of the church has for the most part embodied in collections. have naturally been modified as the law selves have suffered changes. The b canon law is a narrative of these modifications. For some time after the of the apostles, there was in all probabi written collection of laws. The fait lived during this period had vividly is on their minds the decrees and teachin who had conversed with the Lord. course of time, unruly and rebellion began to manifest themselves, and d suffered many serious violations. As occurred, decrees were enacted eitl the transgression or prevent its ret the future. These decrees generally or in the locality in which the crime had b mitted, and by degrees, through the similar circumstances, were adopted the whole church. Thus, in the course centuries, many new regulations had b ally introduced, and the primitive dis been more or less modified. This the necessity of making a collec new laws, so that all might km

ort, and thus uniformity, at least on the ling points of discipline, might be secured. nce the first collection we meet with is composed to have been promulgated either the end of the 2d or the beginning of sou century. It is called that of the Canones stolici, or "Apostolical Canons." This name given because these laws were represented aving been promulgated by the apostles. 11st, however, is not true of them, at least as appear in this collection; for they bear the ces of a development of organization not in the apostolic times. Most prob-, auring the 2d century, the rules given by m apostles for the guidance of the faithful beobe committed to writing. By degrees new ns were added to them, and the collecmus gradually assumed its present form, maining the name to which, in a certain sense, was originally entitled. Whatever may have its origin, it represents faithfully the discime of the eastern church toward the latter art of the 2d and commencement of the 3d cenurv. All, however, did not agree as to the of the canons; the Roman church conguized only the 50 which had been transsted into Latin by Dionysius Exiguus; the n church, after the council in Trullo, ne 6th century, received 85.—The work 1 Constitutiones Apostolica, or "Apostolical soustitutions," is intimately connected with the collection of canons. It is proved by Beveridge hat it appeared toward the end of the 3d cenmy. It does not throw any new light on the liscipline of that period, as it agrees on all points with the canons.—The next collection hat we meet with in the East is that which was produced in the council of Chalcedon, in the 5th century. It was called the Codex Cawnum. It seems to have contained originally anons enacted in the general council of Nice, and in those of Ancyra, Neo-Casarea, and Gan-These 3 councils, although not œcumenialor general ones, had obtained great authority hroughout the whole eastern church, and their nactments were universally adopted. In course If time the Codex was enlarged by the addition If the canons of a council held at Antioch, and If those of the council of Chalcedon itself, and astly of those adopted in the next general coun-ield at Constantinople. These were the rucipal collections of canon law in the early enturies.—In the West there seems to have een no collection of this sort made before the ouncil of Nice. Custom, the decrees of the

shops of Rome, which were issued as occasion fuired, and those of particular synods, were basis of ecclesiastical legislation during the secutive. The canons promulgated at were translated into Latin immediately the celebration of the council, and were ved in the western church, together with seenacted a short time afterward at Sardica. Ler some time 2 Latin translations appeared the Codex which was used at Chalcedon; one is called Isidoriana, or of Isidore; the other

prisca, or ancient. In reality, then, up to the 6th century there was no regular collection of ecclesiastical laws in the western church. This want was at that period supplied by Dionysius Exiguus, a learned monk, who published a celebrated collection, which has ever since borne his name. It contained the principal points of the legislation of both branches of the church: the 30 canons of the apostles, then those of Nice, Ancyra, Neo-Cæsarea, Gangra, Antioch, Laodicea, Constantinople, and Chalcedon, translated from the Greek; the 21 canons of Sardica, from the Latin original, together with 138 enacted in different councils of Africa. These formed the 1st part. The 2d embraced the decretals of the popes Siricius, Innocent I., Zosimus, Boniface I., Celestine, Leo the Great, Gelasius, and Anastasius II. These decretals were letters sent by the popes to different bishops or churches, containing those decrees which they deemed necessary for the maintenance of discipline and the good of religion. These, as is evident, formed no unimportant part of church law. To the above mentioned were afterward added the decretals of the popes Hilarius, Felix II., Simplicius, Hormisdas, Symmachus, and Gregory II. The collection of Dionysius thus augmented was presented in the 8th century to Charlemagne, by Pope Adrian I., when the former came to Rome. Adrian did not give it any new public authority; yet from the fact of his having presented it, and from the quasi sanction thereby bestowed, it acquired great importance, and was called emphatically the Codex Canonum, or code of canons. Such were the principal documents through which access could be had to the knowledge of ecclesiastical legislation, during the first 9 centuries of the Christian era.—Thus far the science of ecclesiastical legislation had advanced in a regular and more or less uniform way. The churchmen had copied the forms of the old civil lawyers, and many made ecclesiastical polity the study of their lives. With the destruction of the western empire, and the universal subversion of all the ancient landmarks of civilization and learning, the church law had to undergo some of the calamities of the age. The barbaric rulers often brought charges against leading ecclesiastics, either for the purpose of confiscating the property of the church, or of revenging the condemnation of their vices; and as the knowledge of canon law had shared in the decline of all science, the churchmen were left unprotected, from a want of acquaintance with laws which would have extricated them from their difficulties. A new collection was therefore required, and did in fact appear, but unfortunately the real erudition of the work was tainted by an inexcusable spirit of imposture on the part of the author. He gave himself a feigned name, that of Isidore Mercator (merchant), or Peccator (sinner). It is not very clearly known who he really was. The most probable opinion seems to be that his real name was Benedictus Levita, or the Deacon. If this be

true, Isidore lived at Mentz in the 9th century. The documents of which this collection was composed can be divided into 8 classes. were some perfectly genuine, and attributed to their real authors; next, others substantially so, but published under the name of popes or councils to whom they did not belong; others, again, were altogether spurious, and perhaps invented by Isidore himself. Yet even this last class contained only in legal form what already existed in the discipline and immuni-All the evil done by Isidore ties of the church. was done to erudition and history, not to the discipline of the church, which remained the same as before. The English bishop, Beveridge, after much erudite and patient toil, discovered that all the decrees or letters invented by the impostor were in reality nothing but tissues of passages selected from the canons of councils, epistles of popes, and works of ecclesiastical writers, especially of the 5th and 6th centuries. The age in which Isidore lived was not one in which a historical fraud was likely to be discovered. He was everywhere held in honor, till on the revival of letters the new light shed upon this branch of criticism led at first to doubts as to the genuineness of parts of his work, and afterward to the discovery of his imposture.-During this time the collection of John Scholasticus, who flourished in the 6th century, was the principal one in the East. Photius revised it, and added many important laws, and it yet remains the basis of the legislation of the Greek church. Up to the 13th century the principal collections in the West were those of Burchard, Ivo, and Cardinal Deusdedit. They added nothing new to the preceding collections; the troublesome times in which they lived did not afford much liberty for new legislation, or leisure for the study of ancient documents. At last, however, the light dawned, sciences and literature began to be cultivated, and Europe again appreciated the benefits of mental improvement. To the 12th and 13th centuries belongs the honor of having initiated this better state of things; then commenced in reality the revival of letters and civilization. Law was one of the sciences which seemed to meet with most favor in the new order, and formed one of the most important branches of study in the rising universities, especially in that of Bologna. The civil law of the Roman empire became the subject of profound and toilsome investigation. It was natural that in the mediaval society on which the church exerted so powerful an influence, her legislation should be an object of the research of the student, and that canon law should thus become a science to which persons were to devote themselves exclusively. The new state of affairs called for a new collection, which could be used as a class book. Gratian, a Benedictine monk, a native of Tuscany, undertook the task, and published in 1151 his Concordantia Discordantium Canonum. This was composed of various texts of Scripture, of the Canones Apostolici, of the decrees of general and partic-

ular councils, of the of extracts from the write of the enactments of the our civil It. empire, or of the F ci ward the title of now known. It lab п О defect of its time, knowledge and cri -CI many spurious do most part, taken from une co It cannot therefore be relieu received any public approbation A spurious or false canon reauthority from the circumstance on been incorporated in the Decretum. its faults, however, it is a truly great wonderful work, considering the s it appeared. Gratian is the father of of canon law, the bold pioneer, who courage to penetrate this pathless w decrees, canons, decretals, decision structions, to mark out some well-d points, and to establish certain signs, to gr posterity in their way.—In more times, when general attention had been to the inaccuracies of the Decretum, attempts have been made to correct it. ninus Augustinus, a learned canonist of the l century, devoted a great deal of time and to this object. A commission was appo by Pope Pius IV. to attend to this imp work, which was accomplished during the per tificate of Gregory XIII. The persons comparing it are commonly known under the name Roman correctors.—After Gratian many learned canonists either published new collections, improved or commented on those already # isting. Among these were Bernard of Paris, Gilbert and Bernard of Compostella. ever, their works lost almost all their im tance on the publication of the collection Pope Gregory IX., which introduced a my era in the science of church legislation Gregory has been truly styled the Justinian of canon law. He saw the necessity of a more authentic work than that of Gratisn, of which, by receiving the approval of the le mate authority, should become the public col He intrusted the execution of of the church. He intrusted the execution of this idea to St. Raymond de Pennafort, a learning Dominican friar. He faithfully fulfilled histre and in 1234 promulgated the celebrated 5 bo of decretals. These embraced all the laws of the church then in force, containing those tens of Scripture which referred to disciplinary ters; the decretal letters of the population Gregory the Great to Gregory IX.; the A nes Apostolici; the decrees of the councils, that of Antioch to the 4th general one of L ran; together with many passages of the thers, which embodied generally received In publish toms or salutary regulations. In publish this collection, Gregory enhanced its value giving it the approbation of the holy see, a commanding it to be received as author all ecclesiastical tribunals, and in all schools of Thus, for the first time, was given to the la code of general church law, stamped the seal of ecclesiastical approbation.

• VIII. added, in the 4th year of his , another book to the 5 of Gregory to contained the canons of the second all council of Lyons, together with the ent decrees issued by himself. It was at the 6th book of decretals, and received authenticity that had been given to ers. Sideh, too, was the collection made warious decrees of this pope, together those of the general council of Vienna.

ons commonly receive the name of the general council of Vienna ons commonly receive the name of the general council of Vienna ons commonly receive the name of the general council of Vienna ons commonly receive the name of the general council of Vienna ons commonly receive the name of the general council of Vienna ons commonly receive the name of the general council of Vienna ons commonly receive the name of the general council of Vienna ons commonly receive the name of the general council of Vienna ons commonly receive the name of the general council of Vienna ons commonly receive the name of the general council of Vienna ons commonly receive the name of the general council of Vienna ons commonly receive the name of the general council of Vienna ons commonly receive the name of the general council of Vienna ons commonly receive the name of the general council of Vienna ons commonly receive the name of the general council of Vienna ons commonly receive the name of the general council of Vienna ons commonly received and the general council of Vienna ons commonly received and the general council of Vienna ons commonly received and the general council of Vienna ons commonly received and the general council of Vienna ons commonly received and the general council of Vienna ons commonly received and the general council of Vienna ons commonly received and the general council of Vienna ons commonly received and the general council of Vienna ons commonly the general council of Vienna ons commonly the general council of

ban IV. to Sixtus IV. These different collections, beginning with that of Gregory IX., form what is called the jus antiquum, or ancient law, in contradistinction to the jus recens, or modern law.—After the great schism of the West the general council of Constance, conwaked to put an end to that schism, passed decrees for the extirpation of abuses, and reccommended the pontiffs to prosecute the good work with vigor; but the many and inces-Rome, rendered this extremely difficult. When Luther raised the standard of private judgment, and set at naught the authority of the church, what the pontiffs had so long deaired at last became feasible; a general council was convoked, and set to work in good earnest to reform the Catholic body. To this effect many new enactments had to be adopted, and the wise disciplinary decrees of the council of Trent form the basis and principal part of mod-en canon law. Beside these, there are various balls and briefs of the popes issued for the most Part to execute or to explain more fully the canons of Trent. These are precisely the same documents that were anciently styled decretals. They are to be found in the Bullarium, an im-

work, first commenced by a Roman lawLaertius Cherubini. He began with Leo
Great, and intended to bring his work
In to Sixtus V., but died before completing
His son, Angelo Maria, however, finished
There is also the Bullarium Magnum, pubed by Jerome Mainardi, containing the
l letters or bulls, from those of Leo the
to those of Clement XII. There is aner one containing the bulls of Clement XI.,
another again embracing those of Benedict
I. The Bullarium is yet constantly pubed, and now has been brought down to the
years of the reign of Gregory XVI.—The
of the Roman chancery form also a part
dern canon law. These are 71 in numa, and are intended to regulate the business
this important office, to which are confided

the many and weighty questions relative to ecclesiastical benefices. These rules were first established by John XXII. They are in force only during the lifetime of each pontiff, being adopted by him at the beginning of his reign. The decisions of the congregations of cardinals enter also into the present code. They are binding for the whole church when given in answer to general questions, or when especially declared to be so. Lastly, the concordate with different princes or governments, which are made in order to regulate those modifications of general legislation that the exigencies of the times or other circumstances may demand, are a prominent feature in the present state of ecclesiastical polity, and are gradually effecting important changes, by making what was before but a solitary exception to become an almost universal rule.—This is the history of canon law in its general bearings on the Catholic church. We have refrained from mentioning those details which have reference to particular provinces or nations. Canon law, in its present state, is almost as voluminous as was the ancient Roman code. While one small volume in octavo contains all the dogmatical decrees on matters of faith, ponderous folios are filled with disciplinary decrees. This is inevitable. A dogmatical decree remains always in force, is never modified or repealed; discipline necessarily undergoes modifications and changes.—The canon law is used, under certain restrictions, in the ecclesiastical courts of England and the courts of the 2 universities

CANONICA, Luigi della, president of the public works of Lombardy, born toward the middle of the 18th century, died in Milan in 1844. He was as much distinguished for his genius as an architect as for his public-spirited beneficence. Among his principal achievements are the Palazzo Bellotti and his own sumptuous residence, the Casa Canonica, the theatres Ré, Carcano, and Filodrammatico at Milan, 2 theatres at Brescia and Mantua, and the new theatre at Parma, which, after his design, was built by Bettoli. His most celebrated work is the amphitheatre della Porta Vercellina at Milan, begun in 1805 by order of Napoleon. His labors brought him not only fame, but wealth to the amount of \$700,000, of which he bequeathed \$17,000 to the education of poor artists, and \$85,000 to the primary schools of Lombardy.

CANONICAL HOURS, the different portions of the breviary or divine office in the Roman Catholic and Greek churches, arranged for use at certain hours of the day. According to the original custom, still preserved in some strict monastic orders, matins and lauds should be recited soon after midnight, prime early in the morning, tierce, sext, and none at 9, 12, and 3, vespers late in the afternoon, and compline in the evening. The usual custom is, however, at present, both in the public singing or recitation of the office in choir, and in the pri-

vate reading of it, to say matins and lauds on the preceding evening, the little hours at some convenient time in the morning, and vespers and compline at any time in the afternoon. The office is obligatory on clergymen in the major orders, the members of monastic communities, and those who hold benefices. It is chiefly composed of the psalter, and lessons from the Scriptures and the acts of the saints and martyrs, with hymns, versicles, and prayers interspersed. A great diversity of offices have been and are in use. The one most generally used in the Catholic church of the West is the Roman breviary.

breviary.

CANONICUS, an Indian chief of the Narraganset tribe, born about 1565, died June 4, 1647, was the firm friend of the English, and especially of Roger Williams, whom, to use the words of the latter, he loved "as his own son to his last gasp." From him Williams obtained, March 24, 1638, the grant of land for his settlement of the future state of Rhode Island. During his life the Narragansets were engaged in several Indian wars, but remained at peace with the white men. Many years after his death, however, under the famous King Philip, they became involved in a war with the English, which resulted in their extermination.

CANONICUT, a small island in Narraganset bay, in the state of Rhode Island. It is fertile, and contains the town of Jamestown. On the southern extremity, which is called Beaver Tail, is a lighthouse. The length of the island is about 8 miles, and its average breadth 1.

CANONIZATION, in the Roman Catholic church, a solemn declaration that a beatified servant of God possesses a special glory in heaven, on account of which he is proposed to the special veneration of the whole church. After the beatification of the deceased has taken place, the principal condition which is exacted, in order to go on with the process of canonization, is that the newly beatified should perform 2 miracles, which must stand the test of a most rigorous examination and be judicially approved by the competent tribunal. After this, several consultations are held, the pope issues the decree of canonization, and a magnificent ceremony takes place at St. Peter's church, at which the pope officiates in person.

CANONSBURG, a post borough of Washington co., Pa. It is the seat of Jefferson college, a flourishing institution with 8 professors, 197 students, and a library of 10,000 vols.

Pop. 627.

CANOPPI, ANTONIO, an Italian scene-painter, born in 1773, died in St. Petersburg in 1832. He received his first education from his father, who was employed as civil engineer by the duke of Modena, and after occupying himself for some time with fresco-painting, he was subsequently employed as scene-painter in Venice and Mantua. Compelled to resort to flight at the time of the French invasion, he first betook himself to Vienna and afterward to Moscow, where he was engaged in the decoration

of many palaces, which, however, were burnt in the great fire of 1812. From that time until his death he was engaged as access-paintr of the imperial theatre of St. Petersburg. His most admired efforts in that branch of artwee his architectural scenes for Mozart's "Maje Flute," and for "Semiramia."

CANOPUS, a star of the first magnitude in the constellation Argo Navia. It is in the end of the rudder, and is 87° from the 8 pels. It is therefore a southern circumpolar star, and is never visible in the latitude of the northern

states of the Union.

CANOPUS, or Camonus, in Egyptian mythology, a water god, represented on vessis of a spherical shape. These vessels were used by the ancient Egyptians to keep the water of the Nile in good drinking condition. The world of Canopus was superseded under the first Palemy by that of Serapis—a Greek inscription is honor of Serapis at Canopus having been decovered, by Mr. Hamilton amid the roise of Alexandria.—In ancient geography, Camus was one of the most remarkable towns of lever Egypt, near the most western mouth of the Ma. The name of the town is variously ascribed to the divinity of the same name and to Casopa, or Canobus, the helmsman of Menelson, who died in Egypt of the bite of a serpent, after its return from Troy, and who was buried on the site of the town.

CANOPY (Gr. RESPONDED: ; from RESPONDED; and), a net spread over a bed to preserve the sleeper from insects. In architecture, an emmental projection over doors, windows, it. also, a hood or covering over thrones, sicha tombs, &c. Canopies are also borne over the

head in processions.

CANOSA (anc. Canusium), a town of Naprovince of Terra di Bari, S. W. of Barletts; p about 8,000. It contains a cathedral of the century, the remains of a gateway near the re Ofanto, of a splendid amphitheatre, and the se of Bohemond, prince of Antioch. It was substituted by the Romans 818 B. C., until which time had been hostile to Rome ever since the see nite war. It is frequently mentioned in a classic history, and is spoken of by Horse in the journey to Brundusium. Herodes Attan constructed an aqueduct to supply it will good water. The Romans called the interitants bilingues, as they spoke both Green and Oscan. The mule drivers of Canada were noted for their skill, and were a selected by Nero as his charioteers. mains of the Roman army after the de Cannee, in the 2d Punic war, took refer Canusium. Canusium was on the direct r from Brundusium (Brindisi) to Ros markable ancient tombs discovered in 180 the vicinity of Canosa, and the contents are

museum of Naples, were described by Mills (Pris, 1813). They generally contain empty was CANOSSA, a small town near Reggio, is the duchy of Modena, Italy. It contains a cash in which the emperor Henry IV. performed

sefore Pope Gregory VII. in 1077.

THEODORE, an adventurer and er, born at Florence, about 1807. His a captain and paymaster in the my; his mother a native of Piedfter receiving an ordinary school eduresolved to follow the sea, and made byage in 1819, in the American ship f Boston, from Leghorn to Calcutta. Boston, sailed to various parts of the s shipwrecked near Ostend, and again ast of Cuba, where he fell into the gang of pirates, one of whom claimed ancle, befriended him for some time, y sent him to an Italian grocer at r Havana, who was secretly concerned rican slave trade. In a vessel owned ian, carrying a crew of 21 scamps of ces, Canot made his first voyage to 1826, landing at the slave factory of 5, on the Rio Pongo, Senegambia. lling a mutiny on board and helping way 108 slaves under 15 years of age, 22 inches high, the young adventurer service of the owner of the factory

usmed Ormond, but commonly called John," whom he attended in the casecretary and agent, for 8 or 4 months. is old friend, the grocer of Regla, conhim a slave schooner, which he sucfreighting with 217 negroes, receiving mmission, while the Cuban owners um their sale a clear profit of \$41,438. on became a favorite with the native iose proposals of matrimonial alliance edingly embarrassing. He visited vas of the neighboring country, improv-opportunity to study the workings of in which he had determined to encollecting by the aid of the African stock of slaves for his newly estabot at Kambia near Bangalang. was sent out to him from Cuba,

of which died soon after arriving. urved to take his place in command, lingly sailed for Regla, but was soon y 2 British cruisers after a hard fight.

ance of the surgeon and steward me cruisers he made his escape in a with one companion, and reached ongo. In May, 1828, his factory and e destroyed by fire. He afterward a vessel at Sierra Leone, in which -o of slaves wrested from a trader in nez, he sailed to Cuba, where he 8 months. Three more expeditions wed; in the first he lost 300 slaves by ; in the last he was taken by the d condemned to 10 years confinement on of Brest, in France, but after about durance was pardoned by Louis Resolved still to pursue his dangerous , he returned to Africa, and was the the slave traffic at New Sestros, an nt principality governed by a Bassa chief. After meeting with various adventures here in his expeditions among the surrounding tribes, we hear of him in 1839 on a pleasure trip to England. He returned to New Sestros and in 1840 shipped to Cuba 749 slaves. He now resolved to abandon his illicit course, entered into partnership with Mr. Geo. O. Redman, a London merchant, and obtaining from an African chief a valuable grant of land at Cape Mount, established there in 1841 a trading and farming settlement under the name of New Florence. He made a trip to New York some time afterward. In March, 1847, New Florence was destroyed by the British, who suspected it to be a slave station, and Canot subsequently removed to South America, where he engaged in legitimate commerce. He resided for some time in Baltimore, U.S., and finally received from Napoleon III. an office in one of the French colonies in Oceanica. A narrative of his adventures, written from his own notes and conversation by Mr. Brantz Mayer, was published in New York, in 1854.

CANOVA, ANTONIO, an Italian soulptor, born Nov. 1, 1757, at Possagno, in the province of Treviso, died in Venice, Oct. 12, 1822. He sprang from an ancient family, who, for generations past, had followed the trade of cutting the stones which abound in the hills of Asolano and the adjoining country. Young Antonio was put to the same trade. In his 9th year he executed 2 small shrines of Carrara marble, and the remarkable aptitude which he displayed arrested the attention of Giovanni Falieri, a Venetian senator, who placed him, in 1771, under the instruction of a Bassano sculptor. of the name of Torretti, who, in 1778, removed to Venice. Here Canova surprised his friends in 1774, by the execution of the statues of Or-pheus and Eurydice. These were well received, and followed by the group of Dædalus and Icarus, and several other works of art, which enabled the artist to prosecute his studies in Rome, Falieri having obtained for him a pension from the Venetian government of \$100 a year for 8 years. He visited Naples, Herculaneum, and Pompeii, and, taking every opportunity of improving his knowledge of the works of antiquity, he soon produced his great statue in marble of "Apollo crowning himself with Lanrel;" but his reputation was not firmly estab-lished until the completion of his "Theseus vanquishing the Minotaur." His next undertaking was a monument in honor of Clement XIV.; he obtained the permission of his native country to settle permanently at Rome, where after 4 years of arduous labor, the monument was opened to public inspection in 1787. By 1792 he had completed another cenotaph to the memory of Clement XIII.; and gradually he became so overwhelmed with commissions, that he had to extend his studio, which soon almost covered the whole street. Among the many works which appeared from his chisel, from 1795 to 1797, his groups of Cupid and Psyche standing, and of Venus and Adonis, are

the most celebrated. During the revolution of 1798 he visited Germany, and on his return retired to his native village, where he devoted himself to painting, his picture of the "Descent from the Cross" being especially noteworthy. On his return to Rome, he produced his "Per-seus with the Head of Medusa," which by public decree was placed in one of the stansi of the Vatican. In 1802 Napoleon invited him to Paris, where he modelled a colossal statue of the emperor, which was not completed before 1808, and afterward passed into the possession of the duke of Wellington. In 1805 he executed his "Venus Victorious," and in the same year he completed his monument of Christina, archduchess of Austria, erected in the church of the Augustines at Vienna. This is considered the masterwork of his monumental productions. He revisited Paris twice, in 1810, when he modelled the bust of Marie Louise, and executed the statue of Letitia Bonaparte, for which in 1819 the duke of Devonshire paid \$6,500; and in 1815, when he removed to Italy some of the works of art which had been carried to Paris by Napoleon. His reception at Rome was brilliant; the pope inscribed his name in the golden volume of the capital, and conferred upon him the title of marchese d'Ischia, and a pension of about \$3,000. For his native village, Possagno, he designed a temple after the model of the Parthenon of Athens and the Pantheon of Rome, of which the foundation-stone was laid July 11, 1819. He executed the bass-reliefs, and a great altar-piece for the interior, which he had begun 20 years before; but his earthly career was drawing to its close. Some of his most popular works were wrought by him shortly before his death, as the group of Mars and Venus, the colossal figure of Pius VI., the Pieta, the St. John, the recumbent Magdalen, &c. Among his later works is a Washington, of colossal size, in a sitting atti-tude, now in the state house at Raleigh, N. C. In May, 1822, he paid a visit to Naples, where he had undertaken an equestrian statue for the king. On his return, his health became more and more impaired, and he died shortly afterward at Venice. His remains were deposited in the church of Possagno. The same monument which he had designed for Titian, was dedicated to his memory in 1827, in the church de' Frati of Venice, and another monument to his honor was raised by Pope Leo XII., in 1833, in the library of the capitol.

CANOVAI, STANISLAO, an Italian ecclesiastic and historian, born in Florence, March 27, 1740, died there Nov. 17, 1811. Having taken holy orders, he officiated afterward as professor of mathematics at Cortona. In 1788, as a member of the academy of antiquities, he contended for the prize which was offered for an essay on Americus Vespucius. He opposed the common opinion that Columbus was the first discoverer of the new world, claiming that Vespucius one year before him had touched upon the northern part of the continent and had landed in Brazil. His paper gained the prize, but produced much

controversy. He published an Italia tion of Gardiner's tables of logarithms writings, and enjoyed also the reputs worthy ecclesiastic. When Alfi w Canoval waited on him to mu spiritual wants.

CANROBERT, FRANÇOIS CERTA French general, born in Brittany Belonging to a good family, he was admitted to the military school of St nevertheless enlisted afterward as soldier; but within 4 years reached of sub-lieutenant. In 1835 he went and served as first lieutenant in the to Mascara. Being promoted to a he distinguished himself in 1837 at ing of Constantine, and received the of the legion of honor. He displaye courage in many encounters with the . made a major in 1842, and lieutenant With the 64th regiment of t marched against the formidable I forced several tribes of the lower submission, and was made a colone Since the revolution of Feb. 1848, hi ment has been rapid. An expeditio against Ahmed Sghir, bey of Constant had excited several tribes to rebe another in 1849 against the Kabyles, promotion to the rank of brigadier-ger a successful inroad on the Arabs whose strongholds he destroyed, add to his popularity among the soldier procured for him the appointment of camp to Louis Napoleon. After the he was one of the commissioners so departments in order to expedite th tion of those who had attempted to act. In 1853 he was appointed gen vision, and in 1854, upon the formati army of the east, he was placed in of the 1st division, set out, March 13 the Crimea, and was slightly wounded tle of the Alma. The emperor havin him secretly with the supreme comm case of an emergency, he assumed th after the resignation of St. Arnaud, ar the Russians at Inkerman; but shrinki responsibilities of a general-in-chief, h his command to Pelissier, May 16, 18 after, he returned to France, where ! ceived with great distinction by the who sent him on a mission to Der Sweden, and conferred upon him tl medal of Crimea, and the rank of : France. From the British queen t ceived the grand cross of the bath he received the command of the 3d of tary provinces into which France v

by the imperial government.

CANSO, or CANSEAU, GUT OF, the between Nova Scotia and Cape B. leads from Northumberland strait in

lantic. Length 17 m., breadth 21 m. CANSTEIN, KARL HILDEBRAND, founder of the Canstein Bible society

v. born at Lindenberg, Aug. 4, 1667, in, Aug. 19, 1719. Obliged by illreare from the army, in which he had as a volunteer, he devoted himself to bution of the Scriptures, conceiving of printing since so extensively used own by the name of stereotype. His institution at Halle, first founded by tions, has been continued with the

xess to the present time, having printsou at the lowest prices about 5,000,000
of the Bible in the German language,
hose in the Bohemian language. The
rom the sales is employed exclusively
aw editions of the Scriptures, which sepermanent existence to the institution.
death he left to the orphan asylum of
is library and a part of his fortune.
ble society which bears his name now
art of the Franke institutions of Halle, so
fter August Hermann Franke, the founthe orphan asylum, and of other philbic establishments.

TABILE, in music, denotes the easy sounds of a melody, in contradistinction ly elaborated passages. A piece where-melodious element is predominant is cantabile.

TABRIA, a district of ancient Spain, now on the bay of Biscay, and including, to some of the earlier geographers, now the provinces of Oviedo, San-Biscay, and Guipuzcoa. After the invasion, when the country became wn, the name was restricted to the of Santander and the E. part of Oviuwas included in that part of the peninown as Hispania Tarraconensis. On the the territories of the Autrigones, Variated Vascones; on the W. the river Salia ed it from the country of the Astures, S. boundary was formed by the Canmountains. The river Ebro (Iberus)

near the district occupied by one of the several tribes into which autants were divided. Pliny mentions of Cantabria, of which Juliobriga alone any importance.—The Cantabri were and warlike people, and of all the Iberian hey opposed the stoutest resistance to mans, and though more than once forced minal subjection were never wholly l. A portion of them acknowledged

cy of Augustus, but the bulk of the rved their independence among the set of their mountains, while others, than submit to foreign masters, sought by their own hands. After their first subjection, 25 B. C., they several times I, were almost exterminated by Agrippa, I., and under Tiberius called forth the gorous exertions of the empire to keep a check. Horace celebrates their indes spirit, and Strabo describes them at angth as a fierce people, "savage as wild" and the rudest in the whole peninsula.

They have transmitted many of their characteristics to their descendants.

CANTABRIAN MOUNTAINS, a range in the N. part of Spain, formed by a W. prolongation of the Pyrénées, and extending from that chain parallel with the S. shore of the bay of Biscay, W. to Cape Finisterre. They bear various names in the different provinces through which they pass, the best known being those of Sierra de Aralar, Salvada, Ordunte, Anaña, Sejos, Albas, Peña, Mellara, mountains of Asturias, Sierra de Peñamarella, Mondoñedo, Quadramon, and Teoyra. Some of the summits are rugged, precipitous, and clad with magnificent forests; others are crowned with perpetual snow. The maximum elevation is about 10,000 feet. The mountains are crossed by roads from Pamplona to Tolosa, from Bayonne to Vittoria, and from Burgos to Bilbao.

OANTACUZENUS, JOHANNES, a Byzantine emperor and historian, born in Constantinople about A. D. 1800. He began his career during the reign of the emperor Andronicus, under whom he was first lord of the bedchamber. He was a relative of the royal family, while his talents gained for him the confidence of the people. Andronicus and his grandson and legitimate successor, Andronious II., were not altogether harmonious. A revolt of the grandson was the result, which was temporarily settled by his being admitted as a colleague to the throne. Three years later, in 1328, a fresh revolt broke out, and Andronicus I. was compelled to abdicate. Cantacuzenus had attached himself to the victorious heir in the outset, and therefore retained under Andronicus II. the honors he had before enjoyed; he was also made generalissimo of the Byzantine forces. Meanwhile the distracted state of the empire during the revolt had furnished occasion for the incursion of the Ottoman Turks, which gave Cantacuzenus an opportunity to display his military skill. He was unsuccessful against them, but rendered valuable service to the empire in reuniting to it Lesbos and Ætolia, and bringing to an honorable termination the piracies of the Genoese in the Ægæan. The emperor, dying in 1841, left his son, John Palæologus, 9 years of age, to the guardianship of Cantacuzenus, who soon aroused the jealousies of the empress-mother, Anne of Savoy, and to save his life he assumed the purple at Adrianople in 1842. The civil war which resulted was at first amicably concluded by his admitting his ward Palsologus as the colleague of the throne, and giving him his daughter in marriage. But the jealousy of the empress mother raised a new sedition in 1858. Cantacuzenus abdicated, and retired to a monastery; where he devoted himself to literature, and produced a history of his life and times, from 1890 to 1860, in 4 books, printed in Paris in 1645 in 8 vols. folio, in the collection of the Byzantine historians. He also wrote several theological works, among which is a defence of Christianity against Mohammedanism, which drew from

Pope Gregory XI. a commendatory letter. Cantacuzenus ended his days in his monastic retirement, as did also his wife, who had retired to a convent on his abdication. It is not certain in what year he died.

tain in what year he died.

CANTAGALLO, a town of Brazil, in the province of Rio de Janeiro, inhabited by Swiss settlers. The town was formerly rich in gold mines, which are now exhausted.

mines, which are now exhausted.

CANTAL, an inland department of France, mostly formed of the S. part of ancient Auvergne. It is nearly covered with mountains of volcanic origin, the highest summit of which is the Plomb de Cantal. The climate is severe, the snow generally lying on the mountains for several months together. Chestnuts are the staple article of food for many inhabitants, who live also on buckwheat, rye, and potatoes; the wealthy classes alone use wheat. The agricultural portion of the department is on a level plateau between Murat and St. Flour; very small parcels of arable land being found in the mountainous region. The declivities of the mountains present fine pastures and meadows, where large herds of cattle are kept during the summer. Large quantities of butter and cheese are pro-There are a few factories of coarse woollens and linens, coarse lace, copper and brass, paper-mills, &c. Many natives of the department annually emigrate in search of employment. These are generally known as Auvergnats, and distinguished by industry and a saving disposition. Pop. in 1856, 247,665.

CANTALUPO, a town of Naples, province of Sannio or Molise, memorable for a French victory over the Neapolitans in 1798, and for a destructive earthquake, in which many lives were lost, in 1805.

CANTATA, a somewhat elaborate vocal composition, ordinarily written for a single voice, with a thorough bass, and comprising recitative and air. Its invention has been ascribed to Barbara Strozzi, a Venetian lady, in the 18th century, and also to Giacomo Carissimi, pontifical chapelmaster, about 1650. It originally assumed the form of an opera, with voice parts and accompaniments of violins and other instruments, but was subsequently restricted to a few melodies, interspersed with recitative, and adapted to a single voice.

CANTEEN (Fr. cantine), a small wooden or tin vessel, used by soldiers to carry liquors, cooked victuals, &c.; also a little coffer or chest for holding an officer's eating and other utensils; and, lastly, a public house licensed in British garrisons for the use of the soldiery.

CANTEMIR, DEMETBU'S, hospodar of Moldavia, born Oct. 26, 1673, died Aug. 23, 1723. His father, Constantine, held the same office from 1685 to 1693, and his brother, Antiochus, from 1695 to 1701. Demetrius having spent the early part of his life in Turkey, where he acquired not only a high reputation for literary attainments, but also for military and political ability, assisted in the overthrow of Bassaraba, the hospodar of Wallachia, and could only be

prevailed upon by the Turkish | become hospodar in his place, by u of eventually becoming ruler also former country. He entered upon hi Nov. 1710, but Turkey having d him in these anticipations, and the being successful in their first Moldavia, he concluded, April treaty with Peter the Great, by v davia was to become an independ pality under the protectorate of R metrius to be the hereditary sove to furnish to the czar's expedition Turkey a contingent of 10,000 men terprise, however, was not succes czar was forced to retreat, but d surrender Demetrius, who followe Russia, where he received extensive the Ukraine, with the right of sovere them, and with the rank of a prince sian empire. He was also made privy and in 1720 accompanied the czar of dition to Persia, but illness compell return. He aided in the establishn academy of St. Petersburg, and was of the kindred institution at Berlit proficient in 11 languages, and the many works on Turkey, Molds Mohammedan religion, the best which is his history (in Latin) of t and decay of the Ottoman empire .or Constantine Demetrics, a I and statesman, son of the precedu Constantinople in 1709, died in Par He was carefully educated in St. 1 took for some time a prominent p ical affairs, officiated as Russian am various courts of Europe, and gained by his diplomatic, but still more by achievements. Among his most notes his Russian translations from the class 8 books of satires, which exerted a; ence on the development of Russian have been translated into French and

CANTERBURY, a city of Kent, i on the river Stour, 55 m. by road, 81 from London. The city has no con manufacturing position. It is one of t of the rich agricultural county of a large quantity of produce is dispos A local trade is also carried on wi rounding district. Among the public beside the churches and the charit lishments, are the guildhall, market corn and hop exchange, and the ph museum. There is a cavalry barra city. Its principal celebrity is derivhistorical associations, and from its metropolitan see of all England. Th isted in the time of the Romans, wi Durrocernum (from the ancient 1 wher). It was the capital of the! of Kent, and it was here that Augusti Ethelbert and 10,000 of his Saxons. cathedral, which was restored and during the present century, and now p

st beautiful interiors in England, was m 1180. The great tower is of remarkable ny. The windows are of painted glass, and colors are exceedingly rich. The length of oble structure is 514 feet, extreme breadth The crypts beneath are considered to be the finest in England, and contain several chapels. The cathedral was founded by Archbishop Lanfranc, completed by Anselm, and consecrated by Archbishop Corbel, in presence of Henry I. of England, David, king of Scotland, and all the English bishops. Augustin was the first archbishop, and died here between 604 and 614. The celebrated archbishop, Thomas à Becket, was murdered before the high altar in 1170. There are numerous montments in the cathedral; among others those to the memory of Henry IV. and of the Black Prince. There are several other fine old charches in Canterbury, one of the most interesting of which is St. Martin's. In St. Dunstan's the head of Sir Thomas More was found in 1835, which had been buried by his daughter. There are also various architectural relics of past ages. One of the most interesting of these, the great Augustin monastery, long used as a brewery, has been redeemed from its modern uses by the munificence of a pri-rate individual, Mr. Beresford Hope, who purchased it, and presented it to the church a missionary college, defraying the expense of the restorations and enlargements. There are several educational establishments in the city; the grammar-school, an endowed school attached to the cathedral, the national British and infant schools, a blue coat and agray coat school. There are also numerous charitable institutions. There is a fine hospital. By the liberality of another private individual, Alderman Simmonds, a field, called the Dane John, containing a high mound, was laid out, and converted into a very pleasant garden for public use. The borough of Canterbury is govened by 6 aldermen, 1 of whom is mayor, and 18 councillors, and returns 2 members to the house of commons. Pop. in 1851, 18,898.
CANTHARIDES (Gr. κανθ.1ρις, a beetle),

CANTHARIDES (Gr. κανθαρις, a beetle), coleopterous insects of several species, made use of in medicine. The most preferred is the cantharis vesicatoria, a foreign fly, procured mostly in the southern parts of Europe, but to some extent in all the temperate regions of Europe and western Asia. A species called the C. cittata, or potato-fly, is common upon the potato plant of the United States; it is much used as a substitute for the foreign fly, and is by many regarded as equally efficient. It is even adopted in the pharmacoposias as officianal. Other species, too, are known in this country, and are in some parts of it exceedingly abundant. The potato-flies appear on the plant in the mornings and evenings of August. During the day they disappear in the earth. They are collected by shaking them off into a basin of hot water. They are from 1 to 2 of an inch in length, and of a shining golden green

color.—Cantharides are imported from the countries on the Mediterranean, and from St. Peters-The Russian flies, which may be distinguished from others by their superior size and peculiar copper hue, are the most esteemed. In the larvæ state the cantharides live in the ground upon the roots of plants. The flies of southern Europe usually swarm upon the trees in May or June, selecting such as the white poplar, privet, ash, elder, &c. The early morn-ing is the proper time for collecting them, when they are in a torpid state, and will easily let go their hold. Persons protected with masks and gloves beat the trees, and the flies fall upon a linen-cloth spread to receive them. They are then deprived of life by being exposed to the steam of hot vinegar. This method of destroying them dates back to the times of Dioscoride and Pliny. When dry they are carefully packed. If kept in air-tight vessels, they will retain their properties for many years; but if exposed, they will soon putrefy, particularly if reduced to powder. For this reason they should be kept whole until wanted for use. Being then powdered and mixed with ointment or lard, they make a valuable preparation for blistering plasters. Care is required in its application, as troublesome sores, and erysipelatous inflammations are apt to follow its use. Internally administered, the medicine acts as a stimulant, principally upon the urinary and genital organe; its use is attended with danger, as it acts in large doses as a powerful and highly irritating poison.

CANTHARIDIN, a principle derived from the alcoholic tincture of the cantharides insect. It was discovered in 1810 by Robiquet. When the strong solution is set aside, the cantharidin separates in crystals like plates of mics or spermaceti. These are volatilized by heat and pass off in white vapors, which condense in acicular crystals. Being soluble in ether, it is used in the preparation of blistaring papers, and the principle being extracted, the flies are sometimes used to adulterate the genuine article.

CANTICLES, or Song or Solomon (Shirhashirim in Hebrew, the aspa rur asparur of the Septuagint, the Canticum Canticorum of the Vulgate), the 4th book of the Hagiographa, and the 1st of the so-called Megilloth, has its name of Song of Songs from the superior beauty of its language and poetry. In a number of dialogues and soliloquies, written in most harmonious verses, it gives a glowing description of the tender, chaste, and faithful love, as well as of the beauty of two lovers betrothed, or bride and bridegroom; of rural scenes among the mountains of Lebanon and Hermon, among the hills and vineyards of Engedi, and in the environs of Jerusalem and Thirza; and of love itself, sweeter than wine, more fragrant than ointments, which cannot be bought, nor quenched by waters, nor drowned by floods. is ascribed to Solomon, whose palaces, gardens, chariots, horses, guards, and wives are men-

tioned, enhancing by the contrast, the charms of calm rural life, full of song, innocence, and love. In regard to its form, its plot, and the order of its parts, as well as to its subject, it has been variously classified by ancient and modern writers; by Origen, in the preface to his comments, as an epithalamium in the form of a drama, which is also the opinion of Lowth and Michaelis; by Bossuet as a regular pastoral drama of 7 acts, giving the scenes of 7 days, of which the last is the Sabbath; by others as a collection of songs or idyls. Dr. Adam Clarke regards it as a poem sui generis, composed for the entertainment of marriage guests. Its canonicity has also been a matter of controversy; it seems to have been in question with the Jews at the time of the Mishna. Theodore of Mopsuestie, the friend of St. Chrysostom, attacked it most vehemently with arguments derived from the erotic character of the book, and was severely condemned for his attacks. Origen, who is said to have written 10 books of comments on the Canticles, containing no less than 20,000 verses, and his admirer Jerome, are among its most prominent defenders, supported by the circumstance that the book is contained in all the Hebrew copies of the Scriptures, in the translations of the Septuagint, of Symmachus the Jew, and of Aquila, and is mentioned in the most ancient catalogues of the church, commencing with that of Melito, bishop of Sardis, who lived in the 2d century, though not expressly by Josephus. Modern criticism has also questioned the authorship of King Solomon, and several Aramaic words, the yod in the word David, and the abbreviation of the relative asher, &c., have been quoted as evidences against the generally accepted antiquity of the book, though none of these is conclusive. But no subject has excited more and livelier controversies, or has been a source of more learned and contradictory disquisition and scrutiny, than the question of the literal or allegoric and mystic sense of the book. Many modern critics both among Jews and Christians, not unsupported by the opinions of ancient and grave authorities, contend for the literal sense. They also widely differ in the interpretation of the meaning and object of the book. These writers account for its reception into the canon on the ground of its praise of faithful love, of conjugal affection, and the chastity of monogamy, or of a misunderstanding of the collectors. The more ancient opinion, on the other hand, which is alone regarded as orthodox in both church and synagogue, defends the allegorical, religious, and sacred character of the songs. Thus, on the one side the subject is the love of a shepherd, of a youthful king, &c., and the beloved is a shepherdess, an Ethiopian princess, or, according to Grotius and others, the daughter of Pharaoh, wife of Solomon; while, on the other side, love appears as a spiritual affection, as the love of the God of Israel for his chosen but abandoned people, according to the Chaldee paraphrast, the rabbis, and even Luther; of Christ for the church, between the soul of the believer

and Christ, or as the connection betw divine and human nature, according current in the clurch. Aben Errs a philosopher of the 12th century, find book the hopes of redemption for a Israel; Keiser, the restoration of the law by Zerubbabel and Ezra; Hug, an made in the time of Hezekish to ret remnant of the 10 tribes to Judah: the love of wisdom; the alchemists, search for the philosopher's stone. baum, of Cracow, brings the book dor time of Hadrian, finds in it the last ou Jewish patriotism and love of libert the harai bather the mountains of B herocially defended by Bar-Cokeba the authors above mentioned, who hav upon the Canticles, the names of Le Clerc, Rosenmuller, Eichhorn, J Wette, Ewald, Robinson, and Stuart, mentioned, as well as those of Mendels Dr. J. Mason Good, who have publish rable translations. Of those of Jero one is extant.

CANTIUM, in ancient geography. trict in Britain which nearly correspond the present county of Kent. The inleval (Cantii) were spoken of by Cassar as I most civilized of the native British trib

CANTO FERMO (It. firm song), applied in ancient church music to the chants or melodies sung without acoment, or only harmonized with octasuch compositions the notes are of the length, and the structure of the music simplest kind. After the invention atterpoint, the melody was harmonized with skill and effect, and to such improved of vocal composition the name of carrato, or figured singing, was given, the guish it from the canto fermo.

guish it from the canto fermo.

CANTON, a town of Canton towns the seat of justice of Stark co., Ohis beautifully situated on an excellent micalled Nimishillen creek, in the mids finest wheat-growing district in the st since the completion of the Ohio and vania railroad from Pittsburg to this 1852, has increased wonderfully in size portance. Bituminous coal and limes found in the vicinity. In 1852, the tatined 3 iron founderies, 3 woollen facture factories, a bank, an acade 4 newspaper offices. Pop. in 1853 e at from 3,000 to 4,000.

CANTON, a city of China (lat. 23° 7' 113° 14' E.), the chief emporium of the and superor in population and wealth other native Asiatic commercial city. It to the value of its trade, it ranks in the I to Calcutta. It was, till 1842, the sole of European commerce with China, and mercial distinction has been attributed to the advantages derived from this int but a careful study of its posit sources, and of the enterprise

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a different conclusion. It is the chief of the commerce of China with Japan, China, and the islands of the

1 China, and the islands of the lago. The Cantonese are the darmers of sugar estates and mines in I through their ingenuity and energy ore found so abundantly in that couneen rendered available; they are the urers and traders of Cochin China, ra, Sumatra, Borneo, Celebes, and other inds of the eastern seas, we find the four-fifths of whom are from Canton, as chief directors of coffee culture, sole f tin, the cultivators of spices, the dlers among the semi-civilized people terior, and the leading bankers of the cities; they are also the principal f the inter-insular and coastwise trade. as much the case 8 centuries ago as it day. Barbosa saw in 1511 the great Malacca crowded with their junks, th silks, porcelain, saltpetre, iron, ys, and incense; taking in return pepl, cotton, opium, and various drugs and he great junk fleet, composed of inging from 500 to 1,000 tons burden, es opposite the European hongs at contributes more to the wealth of the the European fleets which anchor at The junk fleet bears annually

ants to Asiatic continental and in-There are several Canton corres at Batavia, Singapore, and Bangkok, rth from \$3,000,000 to \$12,000,000. e regard the position of Canton, we , though more remote from the sea northern commercial rivals, Shangpo, and Foo-choo, it is very favorably to take advantage of the monsoons its junks to the ports of S. E. Asia. ion for internal trade is also highly , situated upon the Choo-kiang or er, formed by the junction of the Ped Yuh-kiang. The river Pe flowing the Yuh, or western stream, with fluents, which have deep waters and a rrent, are navigable throughout the tent of the rich provinces of Quang-Quang-tong, of which latter Canton is d, and derives its name, through Euorruption of the language, from this although its proper native name is o-foo, or the "Pearl City of Com-The products of the rich valley by the Mey-ling, Yung-ling, Ya-shan, eu-shan ranges of mountains, area q. m., pop. 60,000,000, have no other ut Canton, and before the establishhanghai as a port of foreign entry, the of the Yang-tse valley and populous lake basin were brought down the r to Nanngan; thence by portage a pass in the Mey-ling mountains, 24 nn-huing, a considerable town at the vigation of the Pe, and thence down ... The natural water ways of the

rich valley which forms the background of Canton are tapped at innumerable points by artificial conduits, forming a net-work of irrigation and water communication, far surpassing any thing of similar character in any other country. The aspect of the landscape, beheld from the fortifications in the rear of the city, is exceedingly picturesque. Far away among the beau-tiful verdure and shrubbery of the plain, you behold the gilded masts of junks gliding in all directions, intermingled with the pointed roofs of villages and the spires of pagodas. This beauty of distant Chinese scenery does not appear in the approach to Canton, and the traveller who for the first time passes through the great delts or archipelago below the city, is disappointed by the aspect of the aluggish stream, the low mud banks, and the dead treeless level lying beyond. Large foreign vessels must come to anchor at Whampos, 12 m. below the city, and to this point they are guided by the famous 9 story pagoda of Whampos. From thence you proceed to the city in a sampan, or "dollar boat" (the name derived from the charge), passing the Boca Tigris, upon which are situated the Bogue forts, which extend their white walls to the summits of the hills on Great Tiger island. About 4 m. from the city is anchored the "boat town," or the 40,000 covered river boats, which are the constant homes of the half million of Tankia, that strange, amphibious, pariah race of China, who are never permitted to enter into cities; who subsist by fishing, and various singular occupations, such as the rearing of myriads of ducks, of puppies, cats, and rats for the epicures of Canton; and who also recruit the piratical sampans, which infest the mouth of the Canton river and almost every portion of the coast. The Tankia fleet is a home for the city's swarm of prostitutes, and it sends forth its painted floating dens to visit the European and American ships. Between this floating city of out-casts and the point of landing at the foreign quarter is the anchorage of the great junks engaged in foreign Asiatic trade. The foreign quarter, with its handsome 8 story edifices, presents a striking contrast to the low, dingy, tent-like dwellings of the Chinese. This quarter comprises about 4 acres of ground, 2 of which, on the water side, are laid out in walks, planted with shrubbery and ornamental trees, in the centre of which stands an English church. The esplanade immediately within the sea wall, which is an agreeable promenade in the cool of the morning and afternoon, is called Respondentia Walk, and is the chief resort for recreation of the European and American residents. The inland half of the quarter is occupied by the factories or hongs and residences of Europeans, whose flags, hoisted daily, display 8 or 9 different nationalities. When a respectable stranger arrives here with letters of introduction, he is generally received and hospita-bly entertained at the mansions of the merchants, especially the English and Ameri884 CANTON

can, who have generally commercial and dwelling establishments at Macao and Hong Kong. For the accommodation of the less fortunate European stranger there are a couple of hotels, conducted on semi-European principles; that is, Chinese in service, chamber accommodation, and filth, and European in diet; but to the curious and hardy traveller, the hotel of Acowo affords a far better opportunity for acquiring a knowledge of the people and city than a residence at one of the princely hongs. Though the Cantonese have been represented as being of all Chinese the most hostile to strangers, yet it has been the experience of several intelligent travellers, that a courteous and cheerful deportment has always secured immunity from insult in visiting portions of the city distant from the foreign quarter; and even rambles with ladies in company have been extended without molestation through the country, around the fortifications of the walled city proper. The walls are 80 feet high, 15 feet thick at the base, narrowing toward the top, built of oblong blocks of sandstone, from 1 to 2 feet in length and thickness, though some portions are partially of brick. This circumvallation forms an enclosure 7 m. in extent, and is entered on different sides by 12 great gates; 4 of which are called partition gates, being in that portion of the wall which separates the city proper from the suburbs, or portion ac-The walled city, as cessible to foreigners. viewed from a commanding height outside, is little else than a rusty, irregular, concave plain of tiled roofs, corners of jutting angles and horns, red flag posts in pairs before the mandarins' houses, and towering above all, widely separated, 2 great pagodas. One of these is 160 feet, and the other 170 feet high. There are 124 josh houses, or small temples, in the city and suburbs. The streets, about 600 in number, are narrow and tortuous, and never designed to permit a European wheeled vehicle to pass, as they barely afford a passage for the palanquins borne on the shoulders of a couple of men, the only means of conveyance for those who are not pedestrians. All goods are transported on the shoulders of porters, who are to be found in such immense numbers, and offer their services at such low rates, that the cost of the maintenance of horses and vehicles is evidently unnecessary amid this swarming population, which is estimated variously at 1,000,000 and 1,500,000, and, including the population of the boat town, perhaps exceeds the latter estimate. Each street is generally appropriated to some particular branch of trade or handicraft; one is called Looking-glass street, another Curiosity street, and another Egg street, where the singular spectacle is beheld of millions of eggs, chiefly ducks' eggs, which are prepared for preservation, and form an item in the foreign Asiatic trade, as well as in the home consumption. The proprietors of the various shops are noted for an unusual degree of suavity. When not engaged within, they

are ever seen standing in the door-ways of their establishments, and, in an amusing jumbs of mongrel English and Portuguese, most pertinaciously solicit the attention of the pu European. The Cantonese shopkeeper exten a liberal hospitality to his customers; he a ways has a refreshing cup of tea to present u wine and other refreshments; and if his a vilities and largesses fail to secure a purchase he parts with his visitor with the same unfu ing politeness with which he received ha This disposition marks the Canton trader in a parts of Asia. Provisions of all kinds a abundant and cheap in Canton; and few lar. cities can compare with it in point of salubrit The innumerable children that encumber the narrow pathways, and crowd almost every et canal boat, attest the wholesomeness of a climate. This swarming life seems to flouris amid an astonishing amount of dirt; the the sands of women who wade in the filthy rive mud at low water, in quest of various molla-k have each generally a child suspended at the backs; and this burden seems to be an invar able appendage of a Tankia woman, who, i she sculls her sampan along, flaps from side! side the head of her comical-looking little spring. This teeming hive of the human sends forth annually about 40,000 trading a venturers and laboring coolies to different par of Asia, and of the latter lately to Australi California, South America, and the West The temperature ranges from 75° to 90 r. v tween June and August, and 50° to 80' and Feb. Snow fell in the city in Few. but had never before been seen by a live inhabitant. Most of the rain falls in May June, but in much less quantity than during rainy season in the same latitude on the ladi peninsula. The S. W. monsoon causes a d sky, and brings a refreshing and invigor air from Oct. to Jan. A good deal of a healthiness is complained of in the foreign quarter, especially among the ladies; but i must be attributed to their luxurious and best European diet, and to the entire absence suitable exercise.—The first intercourse Europeans with this city was in 1517, w Emanuel of Portugal sent 8 ships of v accompany an ambassador, who went to reand obtained permission for his gov establish a trading post near (
was ultimately fixed at Macao.
English failed in an attempt to open there. In 1634 they made another with a greater number of ships; but the case dition was abortive through the of the Portuguese. The perseve English finally gained for them a sition in the European trade with Can they still maintain. Their imports in loss be the opening of other ports to foreign trade. we about \$17,500,000 of British manufactu \$18,000,000 of colonial produce; with valued at \$19,000,000, of which \$18 was of tea. The United States rank

tain in commercial importance at enterprising merchants of Salem vrs of this trade, commenced at minid the dangers and vicissitudes of on' the revolution; and this commerce gave employment to 90,000 tons of taking to Canton \$2,750,000 of Ameriinfactures and produce, chiefly coarse brics, lead, and ginseng, and returning ,000,000 of Chinese products, of which 00 was of tea.—On May 26, 1841, the failing to obtain redress for certain captured the forts which command and compelled it to pay a ransom of 00 to save it from bombardment. British again took possession of the tifications of Canton. Again in combi-ith the French, they commenced hosct. 1856, against the city, which they without much loss, Jan. 5, 1858. An rison still (Sept. 1858) occupies the city. ON, John, an English savant, born at Gloucestershire, in 1718, died March Having pursued the study of scih so much diligence as to interest in If many persons of eminence, he enterassistant, for the term of 5 years, the i Spital square, London, and at the exof that time succeeded to the masterthe discharge of the duties of which the rest of his life. In 1745, the disf the Leyden vial turned the attention n to the subject of electricity, in which several valuable discoveries, almost y with Franklin. He was the first England who verified Franklin's hyor the identity of dynamic electricity tning. In 1750 he submitted a paper yal society on the method devised by f constructing artificial magnets. ocured him an election to a memberthe society, and an award of a gold A paper on the possible elevation of one on the phenomena of shooting other on the electrical properties of the ne, and another on the variation of the rith appended observations for one year, another on the compressibility of water tails of experiments, followed each quick succession. This last-mentioned ought him, in 1765, a second medal royal society. The last paper Canton nitted to the society, was to prove that ousness of the sea arises from the son of its animal substances.

ON RIVER (Chinese Choo-kiang, or er), the lower part of the Pe-kiang, a hina. It is navigable inland a distance 800 m., flowing through the provinces g-tong and Kiang-see. Opposite the anton, and for some distance below, it with small islands, planted with rice nded by a number of forts. It is here with shipping, and deep enough to adls of 1,000 tons burden. The ships a nations, however, always discharge

and receive their cargoes at Whampoa, a place 12 m. lower. At a point about 40 m. below Canton the river takes the name of Boca Tigria.

CANTU, CREARE, an Italian historian, poet, and philosopher, born in Brisio, Sept. 5, 1805, educated at Sondrio in the Valtellina, where he taught belies-lettres at a youthful age, resided afterward in Como, and next at Milan until 1848. One of his earliest works, entitled Ragionamenti sulla Storia Lombarda nel Secolo XVII. ("Lectures on the History of Lombardy in the 17th Century"), 8vo, Milan, appeared in a second edition in 1842-'44, and contained liberal ideas that brought upon the author the animadversion of the Austrian government, which condemned him to a year's imprisonment. During his confinement he composed a historical romance, entitled Marherita Pusterla (Florence, 1845), which has become very popular. His great work, on which his reputation will chiefly rest, Storia Unicersals (Universal History), appeared first in 1887, at Turin. It has been since revised and reprinted at Palermo and Naples, and translated into German. A French translation by Aroux and Leopardi, was published in Paris in 1848. The greatest proof of its merit and success, however, are 8 large editions published in Turin; the last edition, carefully revised by the author, reaching 85 vols. 12mo. The work is divided into the narrative, followed by volumes of documentary history, and various illustrative essays by the author, and concludes with tables and appendices giving a resumé of the whole work. The style is fresh and vigorous, and yet, after the manner of his countrymen, elegant and sustained. Cantu has been a man of great industry and close application, for although he uses the works of others. he is still unhackneyed and free from imitation. This great history is a monument honorable to him and to Italy. He possesses a critical spirit, and is fully up to the time in which he lives, and in his judgments on literary and political characters he seeks to be just as well as independent. The great learning of Cantu is not the only trait that distinguishes him as an original character among many of his countrymen less profound, yet better known than he to the English and American public. He is a friend indeed of liberty, and has suffered as we have seen in her cause, yet he is a devoted admirer and practical follower of the doctrines of the Roman Catholic church. All these traits combined give a pe-culiar character to his history, and render it both interesting and important. His religious lyrics are found in all popular collections of that kind of poetry, and are much esteemed by his countrymen. Other works, for which he has acquired general esteem, are: Parnamo Italiane, Posti Italiani Contemporanei, maggiori e mineri ("Italian Parnassus, Contemporary Italian Poets Major and Minor, &c."), Paris, 1843; Sterie & Come ("History of Come"), Milan, 1847; Algies, o la Lega Lombarda ("Algiso, or the Lombard League"), Milan, 1846; Letture giocanili ("Juvenile Readings"), 4 vols., published about the same time, a work devoted to popular education, which has been translated into several languages, and has passed through more than 80 editions; Storia della Letteratura Italiana ("History of Italian Literature"). Finally, one of his most popular works is the Storia degliultimi Cento Anni ("History of the last Hundred Years"). It was published first at Florence, 1851, and translated into French by M. Amédée Renée (Paris, 1853). It has since passed through several editions, among which is a recent and revised one issued at Turin. Cantu was obliged to leave Milan at the time of the eventful insurrection of 1848, as he would have been imprisoned had he remained there. He has since returned to Milan, where he is devoted to historical and philosophical studies.

CANTU, or CANTURIO, a town of Lombardy, pop. 5,364. It has had iron manufactures ever since the 10th century, and contains an ancient church, remarkable for a tall and slender belfry, used during the middle ages as a beacon.

CANTYRE, a narrow peninsula of Scotland, forming the southern point of the county of Argyle. It is terminated by a light-house, whose light is seen at a distance of 22 m.

CANUTE THE GREAT, KNUD, or KNUT, the 2d king of Denmark of that name, and first Danish king of England, born in the former country about 995, died at Shaftesbury, in England, in 1035. He was the son of Sweyn, king of Denmark, and accompanied his father in his victorious campaigns in England. Sweyn, having proclaimed himself king of England, died in 1014, before his power was established, and appointed Canute his successor there. The latter was immediately driven out by Ethelred, the representative of the Saxon line, and fled with 60 ships to the court of his brother Harold, king of Denmark. Harold enabled him to collect a large fleet in the north to prosecute his cause in England. He invaded that country anew in 1015. He fought many battles with Edmund Ironside, who had succeeded his father Ethelred, in 1016, and was finally victorious at the battle of Assington. After this battle, Edmund and Canuto agreed upon a division of the kingdom. To Canuto were assigned Mercia and Northumbria, while the Saxon prince preserved West and East Anglia. By the death of his brother Harold, he obtained the crown of Denmark (1016). In the same year, and but one month after the ratification of the treaty of partition, Edmund died, and Canute became sole king of England without further resistance. He refrained from murdering the children of his late rival, and sent them to his half brother, Olave, king of Sweden. He put away his wife, Alfgive, the daughter of the earl of Northampton, and espoused Emma, the widow of Ethelred the Saxon monarch (1017), on the condition that their children should succeed to the throne of England. He made the greatest exertions to gain the affections of his English subjects, to whom his Danish origin was no recommenda-

He accordingly disbanded his Dui army, retaining only a body-guard. He ender-ored to blend the 2 races as far as possible and to induce them to live in harmony with each other. He erected churches, and med donations to abbeys and monasteries on the scenes of former conflicts and massacres. In a witenagemote at Winchester, he compiled a code of laws which is still extant. In this code he denounced those who kept up the practice of pagan rites and superstitions, and forbale the sending of Christian slaves out of the coutry for sale. Although Canute generally resided in England, he made frequent visits to Denmark. He carried with him on these or casions an English fleet, English missionsia, and English artisans. He promoted 3 English men to the newly erected bishoprics of Scene Zealand, and Fionia. In 1025 he was attacked by the king of Sweden and defeated; but in the night, Earl Godwin, at the head of the English contingent, surprised the Swedish camp and dispersed the enemy. His absence from Denmerk and the bestowal of so many dignities in Desmark upon his English subjects, made him upopular in that kingdom. To appease this dicontent, he left behind in Denmark his Hardicanute, then aged 10 years, under the guardianship of his brother-in-law Ulf (1036). In this year he made a pilgrimage to Roma. He was well received there by the pope Jela, and by the emperor Conrad II., who gave up to the Danish king all the country N. of the river Eider. From the pope he obtained privilege for the English school established in Roma. and an abatement of the sums demanded from his archbishops for the pallium; and from the various princes, relief for all English and De-ish pilgrims and merchants, from all illegal tols and detentions which they had endured on their route to Rome. He returned from Rome to Denmark. In 1028 he made an expedition into Norway, expelled Olave, and restored Ham who swore allegiance to him. In 1029 here turned to England, and his Danish subjects proclaimed Hardicanute king of Deams Canute immediately returned to Denmark, down the revolt, and executed the traiter CL In 1031, Canute was acknowledged king Norway, and laid claims to the crown & Sweden. On returning again to England be allowed his son Hardicanute to share with the Danish crown. His reign is very import in the constitutional history of Desar Canute issued the first national coince Denmark, and published the first written of Danish law, wherein the custom of private vengeance was prohibited. He rai clergy in their corporate capacity to a s estate of the realm, and instituted the Th or royal guard of 8,000 men. The memb this body were all men of good family, and it enough to equip themselves at their over a pense. From them sprang the Danish order of nobility; they were tried only by their p and formed with the king the highest

tice. Canute's last campaign was against in, king of Scotland, respecting the pos1 of Cumberland, but before the armies engage the 2 kings were reconciled, and count stipulations concerning the tenure of imberland were renewed (1033). Canute buried at Winchester. By Emma he had children, namely, Hardicanute or Canute

children, namely, Hardicanute or Canute Hardy, and a daughter, Gunhilda, marto Henry, the son of Conrad II., of ermany, emperor. By Alfgive he left 2 as Sweyn and Harold. To Sweyn was ven the crown of Norway; Hardicanute reined that of Denmark, and Harold, surmed Harefoot, took possession of that of ngland. Canute is most popularly known, of by his extended rule and legislative enactents, but by the familiar story of the monrah, the courtiers, and the disobedient sea.

reh, the courtiers, and the disobedient sea.

CANVAS-BACK (fuligula vallisneria), a
of the family fuligula, or sea-ducks, pecuwar to North America, and celebrated as the
tost delicious of all water fowl, perhaps of all
without exception; though on that point
whorities and epicures differ. The sea and
bays and estuaries are the principal haunts
fthis genus. Sir John Richardson states, that

fuligula callieneria, the canvas-back, fulises ferina, the red-head, and fuligula ruftross, the ring-neck, breed in all parts of the

countries, from the 50th parallel to their content northern limits, and associate much on the ater with the anatine. The male canvastick has the region of the bill, the top of the ch, chin, base of the neck, and adjoining parts they red; sides of the head and whole length the neck deep chestnut red; lower neck, fore at of breast and back, pitch black; the rest is the back white, closely marked with fine adulating lines of black; rump and upper tail werts blackish; wing coverts gray, speckled the blackish; primaries and secondaries light ate color. Tail short, the feathers pointed; wer part of the breast and abdomen white;

is the same color, finely pencilled with clower tail coverts blackish brown, intermed with white. Length 22 inches, wing 91 ies. The bill is bluish black; the feet and ure dark slate color, the irides fiery reduce female is somewhat smaller, and is less rilliantly and less distinctly colored than the

rilliantly and less distinctly colored than the sale. This species is not found in any part of grope. Its richly flavored flesh is admitted be superior to that of any other of the genus. he canvas-back duck returns from its breed-blaces at the north about the first of No-

r, and during the winter extends its
to the southern parts of the seaccast of
United States. It is not unfrequently shot
the eastern part of the Great South bay of
ngisland, in Long island sound, on the shores
d bays of New Jersey, at Squan beach, BarneEgg harbor, and in the estuary of the
laware; but, in all these localities, it is but
common duck, in nowise superior to many
hers, and decidedly inferior to the red-head.

It is only in the Chesapeake bay, about the confluence of the Potomac and Gunpowder rivers, where it becomes itself, the king of all wild fowl. This excellence is attributable solely to the peculiar food which it finds in that estuary, a plant commonly known as wild celery, botanically as the zostera vallisneria, or vallimeria Americana, which is on no account to be confounded with the costera marina, or common eel-grass. This plant, of which the canvas-back duck is so fond, that it derives from it its specific name of vallisneria, grows on shoals, where the water is from 8 to 9 feet in depth, which are never wholly bare. It has long, narrow, grass-like blades, and a white root somewhat resembling small celery, whence it has its vulgar name; although it is unnecessary to say that it has no real connection what-ever with that plant. This grass is, in some places, so thick as materially to impede a boat, when rowed through it, by the opposition it offers to the oars. It is on the root alone of this grass that the canvas-back feeds. For these roots the canvas-backs dive assiduously and continually, tearing up the grass, and strewing it on the surface of the water, in long, regular windrows, like hay from the mower's scythe. The duck rises to the surface as soon as he has obtained the reward of his labor, in the shape of his favorite root, which he cannot swallow under water; and, before he has got his eyes well open, says Mr. Wilson-though, with all due deference to the eloquent pioneer of American ornithology, it may be well doubted whether so expert a diver as the canvas-back ever shuts his eyes—is robbed of his meal by the impudent widgeons, or bald-pates, as they are called in America, which never dive, but, being equally fond of the root of the vallimeric, depend on their adroitness and agility to rob the industrious canvas-backs. On this account the bald-pates congregate eagerly, as far as they are allowed to do so, with the canvasbacks; who, however, live in a constant state of contention with their thievish neighbors, and, being by far the heavier and more powerful fowl, easily beat off the widgeons, who are compelled to retreat, and make their approaches only by stealth at convenient opportunities. With the canvas-backs also associate the redheads, the scaups, or, as they are called in the Chesapeake, the black-heads, and some other varieties, with which they feed on terms of amity.—The excellence of the flesh of the canvas-backs causes them to be much sought after for the market, but in the waters which they frequent they are so strictly preserved by the real sportsmen, who abound in that part of the country, and have obtained the control of most of the shores, that the worst methods of poaching are prohibited. The canvas-backs will not fly, like geese and many of the species of ducks, to decoys; and the anchoring of batteries on the feeding flats, and the sailing after the birds on their grounds with boats, are not permitted under any circumstances, which has preserved

thus far this delicious fowl from extermination. The ordinary mode of killing them is by shooting them on the wing, from behind screens, or blinds, as they are termed, of reeds, arranged on the projecting points of land, over or in the vicinity of which the fowl are compelled to fly in going up and coming down the bay, to and from their feeding grounds. The velocity at which they fly, as well as the height of their course, renders it extremely hard to hit them; and a great allowance must be made in taking aim, in order not to shoot far behind the object, which will surely be the case if the sight of the gun be laid directly on the passing fowl. Add to this, that the feathers on the breast of this duck, as of many others of the family, are so closely compacted together, of so thick and elastic texture, and so matted by the aid of the oil from the gland in the rump with which the bird lubricates them, that any ordinary shot, striking on the breast, as the fowl comes toward the shooter, will make no more impression than it would on the breastplate of a French cuirassier. The best and most deliberate fowlers, therefore, when they have time to do so, let the flights pass, and then shoot them with the grain of the feathers. A remarkable propensity of these birds is to be attracted, with a most singular and insatiable kind of curiosity, by the appearance of any unusual sight on the shores; and anything of this nature will induce them to leave their feeding grounds, and swim in great flocks of thousands together, perfectly fearless, or rather reckless, to the places where men lie for them in ambush. It is said that the scaup, or black-head, can be allured in this manner more easily than the canvas-back; and that the red-heads and widgeons, when they are alone, cannot be deceived at all, though, when in company with the others, they will fall into the same error, and accompany the flocks to their own destruction. Advantage has been taken of this habit to ensnare the unwary birds to their ruin, by a system which is called toling. It is thus practised: A long range of screens is set up along the shore, within a few yards of the water mark, behind which the shooters lie concealed, with small openings at intervals to permit the egress and ingress of a small cur-dog, the more like a fox the better, and so also the odder his appearance and the more remarkable his color, who is taught to run back and forward in front of the blinds, performing all sorts of curious tricks and antics, to attract the attention of the fowl. So soon as this object is attained, they will swim up in a body within easy gun-shot; and so totally are they infatuated and demented by their curiosity, that so long as the shooter holds himself concealed, and the dog continues his deceptive gambols, so long can the stupid birds be drawn up, to receive volley after volley, until they are deci-mated or destroyed, perfectly regardless of their dead or wounded companions, through which they will continue to advance on the muzzle of the gun. The only thing necessary to be observed in this sort of shoot the flock, which at accret me do, so deceptive is the effect of shoot water. The plan adopted by the ers is, in taking aim, to see the war the nearest fowl, in a flock of h clear relief above the sight of the the charge will fall into the throng. By good sportsmen, will deed any other way of shooting can't than on the wing, from points, is held to be rank poaching. When the rive to be rank poaching. to freeze, vast numbers of all these ducks congregate at the open air-magnetic fearful slaughter is made of them weather at such places; as many, it is 88 canvas-backs having been killed at discharge of a heavy gun. Wounded backs are expert divers, and are extren cult to recover; wherefore it is usual to be accompanied by a good News retriever.

CAOUTCHOUC, India rubber, calle South American Indians cakuchu, the milky juice of a number of trees and plan in Brazil, Guiana, Peru, &c., and in Indies. The poppy and lettuce, and euphorbiæ, afford a similar exu American tree, from which this acced plied, has been variously named by naturalists. It is the jatropha elastics us, eiphonia elastica of Persoon, and a. of Schreber and Willdenow, and the he anenesis of Aublet. The Asiatic tree furnish the greater part of the suppl the East, are the ficus and wrecols clasti former is one of the noblest forest trees being sometimes 74 feet and its height In Assam, beyond the Ganges, are for haustible forests of it; but the qua product is inferior to that of the Amera The French astronomers sent to Pert were the first to call attention to this 1 ticle. The tree was afterward discov Frismau in Cayenne in 1751.—The pr Para, S. of the equator, in Brazil, fu mense quantities of this article to w The trees are tapped in the m ing the day, a gill of fluid is recup placed at each incision in two is turned when full into a jar; at once to be poured over any pa or a wooden last covered with c of which it takes as succ applied. In a similar u made by accretion of gre-As these layers are applied, their hardening are hastened by exposure and heat of a fire, and thus the quires its ordinary black color. sun alone, it is white within, and y brown without; when pure, it is n Complete drying requires se to the sun; during this time soft enough to receive impre and is thus ornamented by

s collect it upon balls of clay in the ttles and various fanciful figures, in pes it is often exported. They also to tubes, which they use for torches. bould over which the bottles are formbroken up, is extracted through the

From the custom among the naresenting their guests with one of les furnished with a hollow stem, to a syringe after meals for squirting the mouth, the Portuguese gave the ringat or syringe to the gum and alee which produces it. The moulded brought into Para suspended on poles sm from touching each other, as for a they continue sticky. Beside great of this substance which leaves Para in s, the exportation of shoes alone has for years past to about 800,000 (" Brazil and the Brazilians," and Fletcher, p. 553.)—It is not only 1 various moulded forms, as bottles, enting animals, rudely shaped shoes, s also for exportation, but a meth-

uevised by Mr. Lee Norria, of New reserving the juice, as it comes from and shipping this in air-tight vessels lass. The liquor is first filtered and well shaken with about 1 group of its strong ammonia. On being poured ny smooth surface, and exposed to a e of 70° to 100° F., the ammonia, served it from the action of the oxytmosphere, evaporates, and leaves the form of the object which holds it his state a pure white appearance of a pale yellow, of the thickness n a sourish odor, and of specific grav-

The pure caoutchouc, which sepa-

it, rising like coagulated albumen to

as the mixture of the juice with

neated, has the specific gravity of This being skimmed off like cream, is found to constitute about 32 per e juice. It may also be precipitated nydrochloric acid. On being pressed olds of cloth and dried, it becomes It swells by long-continued exoiling water, but regains its form afremoved some time. Alcohol does e it, but precipitates it from its solu-Oil of turpentine, coal naphtha, e are among its best solvents, as also ydrocarbon, called caoutchoucin, oblistilling the crude caoutchouc. The listilling the crude caoutchouc. and alkaline solutions have no effect In evaporating its solution, the subcovered in some instances elastic and re, so as to serve the purposes of a hich possesses the properties of the ce; or it is obtained in an adhesive, By some of the English authorion in linseed oil, in the proportion n to 13 lb. of oil, is recommended

varnish for making leather wa-

in linseed oil, nor in the oils of levender, cloves, and cinnamon.—At the temperature of about 248° F., caoutchouc melts and remains in a sticky condition, unless long exposed to the air in thin layers. It readily inflames and burns with much smoke. Its elasticity is very remarkable; and when a piece of it is stretched, heat and electricity are evolved. If a piece is kept distended for 2 or 8 weeks, its elasticity is lost; exposure to temperature as low as 40° produces the same effect; but the application of a gentle. heat immediately restores it. This property is taken advantage of in the manufacture of elastic textile fabrics, woven of the inelastic threads, which are afterward made elastic by heat. At 600° it is partially volatilized, and the vapor when condensed is the oily substance called caoutchoucin, which has been before mentioned as a good solvent of caoutchouc. According to the analysis of Prof. Faraday, the gum is a hydrocarbon consisting of 8 equivalents of carbon and 7 of hydrogen, which would require the proportion of 87.27 of carbon and 12.78 of hydrogen in 100 parts. The numbers found by him were respectively 87.2 and 12.8. The juice, as obtained from the tree, gave in 100

Water containing a little free acid	56.87
Caoutchouc	
Wax	trace
A nitrogenized body soluble in water A substance insoluble in water	7.13
A substance institute in water	2.70
	100.0

Caoutchouc was long known before its most valuable qualities were appreciated. Dr. Priestley refers to it in the preface of his work on "Perspective," printed in 1770, as a substance which had just been brought to his notice, as admirably suited for rubbing out pencil marks, and as being then sold at the rate of 8 shillings sterling for a cubical bit of about 1 an inch. was afterward applied to the preparation of var-The chemists soon found how well adapted it was to connect with flexible joints the glass tubes required in their operations; a thin sheet freshly cut being laid around the ends of 2 tubes, and slightly pressed together, adhered, as if it were originally made in this cylindrical form; or, as usually practised, the slip is folded around a single tube, and the 2 ends lapped upon each other being cut with scissors instantly unite: this may then be slipped over other tubes. It came then to be used to render cloths water-proof, and as its properties and those of its compounds with sulphur, for example, were better understood, it was found to be adapted to a multitude of uses. Its elasticity and flexibility were qualities required in many important surgical instruments, some of them of tubular form. The elastic bands and threads found numerous applications in the arts and trades; by the bookbinder they have been used for securing the leaves of books, giving flexibility and freedom of opening to the volumes; and for a great variety of springs they have taken the place of steel. Upon the English rail-

vulcanized o

ways the elasticity of caoutchouc in gradually resisting compression, has caused it to be made into buffers, which reduce the jar caused by the railway carriages striking together. In the same way it is used in this country in piles of circular disks for the springs upon which these carriages rest; and a patent has been granted here for laying the rails themselves upon the same material. By reason of its density and flexibility, it is suitable for many of the uses to which leather has been applied; while its im-perviousness, and resistance to the action of substances which destroy leather, give it some important advantages over this material. This is particularly the case in the packing of me-tallic joints to render them steam-tight. In thin sheets it has been used for taking impressions of engravings. In this form it is an excellent material for covering the mouths of bottles, and for other applications requiring the exclusion of air and moisture. In a melted state it makes lutes that are of service in chemical operations; and it may also be moulded and hardened into ornaments of intricate forms. It makes with other ingredients a coment, called marine glue, which is unsurpassed in adhesiveness when applied to join surfaces of wood, and is not affected by moisture. Masts of vessels have been so firmly spliced by its varnish, that when broken, the fracture is always found to be in the whole wood. It has been stated that the timbers of a ship might be more strongly glued together by it, than they are held by bolts. To make this glue, a pound of small fragments of caoutchouc is dissolved in about 4 gallons of rectified coal tar naphtha, the mixture being well stirred. In 10 or 12 days, when the liquid has acquired the consistence of cream, twice its weight of shell-lac is added. It is then heated in an iron vessel having a discharge pipe at the bottom. As it melts it is kept well stirred, and the liquid flowing out is received upon slabs, and thus obtained in the form of thin sheets. It is applied after heating it to 248° F., with a brush, being kept sufficiently soft after spreading, by passing iron rollers of the temperature of 150° over the surface, as may be necessary, until the joining is made. In England, blocks of caoutchouc combined with other substances have been used for paving stables, lobbies, and halls. The entrance for carriages to Windsor castle is thus paved. Among the most prominent of the numerous other uses of this valuable substance, alone or in combination, may be named machine belting, water pipes or hose, baths and dishes for photograph and chemical purposes, coverings of telegraph wire, boots, shoes, toys, life preservers, clothing, furniture covers, travelling bags, tents, beds, water pails, &c., &c. New uses are constantly discovered for it, as new properties are developed in the various chemical and mechanical modes of treating the article.-For most of the purposes to which it is now applied, it is either uncombined with other substances, or it is in the form of a sulphuret of caoutchouc, or what is called the

pound, the cruue arm and thoroughly cleaned non and adulterations by a series c water, steam, and mechanical app the English process, the little piec and torn with iron teeth in a cyli cast iron, which is so small that ! chouc make a charge. So much be in this process, that cold water wash the substance is soon made then ground dry in another mill: chisels, which cut into the mass a sage for the escape of the confined which burst out with frequent o little quick-lime is worked into i In other machines it is kneaded a in various ways, and finally a n balls thus treated are brought toge erfully squeezed by a screw presimoulds, in which being firmly se is left for several days. This pr what modified in different establ some the mill is not used, but the are rolled into sheets, from which thin sheet rubber are sliced by t of suitable knives worked by n kept wet. The sheets are at once purposes to which this form is machinery of great ingenuity the long threads of any desired degre If then required to be joined, a ch is made with a pair of scissors, sc a fresh surface upon each piece, being brought together and pre fingers, they at once form a perfe vided no moisture or grease has surfaces. As the threads are n are deprived of their elasticit between the moistened fingers presses them so that they are el 8 times. After remaining on . days, the threads are wound upor are then ready for weaving or 1 threads are of various degrees pound of the caoutchone makin chine a thread 8,000 yards in len another machine is divided in 32,000 yards from one pound. E made by covering the caoutchous of silk or other material. rics, caoutchoue threads while the west or cross three cotton, or linen. The staff as by passing a hot iron over it, v caoutchoue to shrink and regame Too great extension of the artic the gum would be stretched so as elasticity, is prevented by mak threads of the warp of the same 1 weft, so that these shall receive t the process of Messrs. Aul Grenelle near Paris, a 1 thread is obtained of any size caoutchouc after being cleaneu = a paste of the consistence of

macerating it 12 or 15 hours with ce its weight of suphuret of carbon, about 5 per cent. of alcohol is added. is well kneaded by compressing it hragms of wire gauze placed in a, and is then forced through a noies at the bottom of another cylus threads as they issue from these taken on a web of velvet, from which to another of common cloth, and are owly along for 600 or 700 feet, when become dry and hard by the evapothe solvent, and are received each one cup. Another kind of thread is that by the vulcanizing process, of which will be given further on. These, reextended by weights. In their use d or corrugated fabrics were first prothe shrinking of the threads drawing surfaces of the cotton or other material they were applied.—The water-proof nown in Great Britain from the name or as Mackintoshes, are made by

or as Mackintosnes, are made by cloth on one side with a layer of w varnish; or sometimes 2 strips of s coated are laid together and comli they form one body, with the caoutarposed between the 2 parts. The disodor which these stuffs commonly reft by the coal-naphtha, turpentine, or rent employed to liquefy the caout-lould the natural juice be applied, as from the tree, and its inspissation take on the cloth, the dissolving proits disagreeable effects would be The steam from heated aromatic

The steam from heated aromatic and the smoke arising from their comben made into pastilles, as also the sulphur mingled with the vapors of and alcohol, have been used with more coess to deodorize these fabrics. They sometimes immersed in disinfecting hith earne object.—Vulcanized caouthich is a combination of this substance ur, was first prepared by Mr. Charles of New York, to whom a patent was in February, 1839. He afterward another process by which lead was duced, in the form of white lead, into re, the white lead and sulphur being in preparing paint, 7 parts of the

re, the white lead and sulphur being in preparing paint, 7 parts of the word the latter, and then mixed with f caoutchouc dissolved in some essenthe lead has the effect of rendering the more compact and heavy. Perhaps iar chemical properties, for which a is so remarkable, are as advantaged by the simpler mixture of sulphur c. The compound of sulphur and remarkable for possessing a higher enasticity than caoutchouc alone, and g this at low temperatures, even being point; neither is this property

e substance being frequently stretched.

change; at a temperature above 280° F. it is charred, but it will not melt, unless exposed to flame. In its preparation, after the ingredients have been well incorporated together, it is heated in close vessels to nearly its charring point, the effect of which is to give it, beside its more perfect elasticity, a power of resisting the action of the solvents which liquely the natural product, and also to greatly increase its resistance to the action of acids and other corrosive fluids. Its adhesiveness is lost, so that freshly. cut surfaces cannot be made to unite. The combination with sulphur has also been effected by exposing the rubber to the action of sulphurous fluids, as the sulphuret of carbon and the chloride of sulphur. An immersion for 1 or 2 minutes in a mixture of 80 or 40 parts of sulphuret of carbon to 1 of chloride of sulphur, it is found, will serve to vulcanize caoutchouc, this being subjected to the usual high heat. at this temperature, if compressed into moulds, as those used in forming shoes, the form is retained on cooling. Magnesia also has been applied by Mr. Goodyear, it is said, for the purpose of giving that degree of hardness to the material, which renders it well adapted for the manufacture of fancy boxes, combs, canes, but-tons, knife-handles, etc., its appearance and tenacity being like that of horn, but its elasticity has disappeared. Sulphur in the proportion of 1 part to 8 of caoutchouc is probably all that is essential to give the hardness, provided the mixture be exposed to a sufficiently high temperature for a long time. Magnesia and some other matters introduced have the effect to lighten the shade. The heat is applied to the articles buried in pulverized scapstone by the introduc-tion of highly heated steam.—In the different manufactories of this article a great variety of processes have been introduced, and a high degree of chemical skill and of mechanical ingenuity has been applied to perfect the operations. highest success, as is shown by the superior reputation of the goods even in the English markets, has been attained in the American establishments, the credit of which is due to the untiring perseverance and ingenuity of Mr. Goodyear. The following table presents the U.S. imports and exports of eaoutchoue during 1856 and 1857:

	20, 1956.	1861.
Imp. of manuf. caoutchous	897,796 1,045,576	\$189,585 889,058
Total imps. into U. S. from for- eign countries	\$1,148,879	\$1,012,648
Re-exported of the foreign import of manuf. esoutchouc Re-exported of the for, imp. of	\$18,879	\$49,096
unmanuf caoutchouc	190,808	64,481
home-made caoutehous shoes (685,230 pairs)	427,986	861,199*
caoutchouc	665,603	812,867
Total exps. U. S. to for countries	\$1,989,719	8770,596

• 801,800 pains.

England imported from foreign countries, from Jan. 1 to June 1, 1857, 5,488 cwt. of caoutchouc, and during the same period of 1858, 9,155 cwt.

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CAPE, the extremity of a portion of land projecting beyond the general line of the shore. CAPE ANN, the S. E. point of the town of

Gloucester, Essex co., Mass., the N. limit of Massachusetts bay. The whole of the rocky peninsula forming this part of Gloucester is also called Cape Ann, including the village of Squam in its N. E. part. This peninsula is a headland of sienite, which forms low hills, over the surface of which the rock is very generally exposed to view. The lands are strewn with the greatest profusion of bowlders, many of great size; and beds of pure white sand are intermixed with the ledges and bowlders. Valuable quarries of sienite for building purposes are worked most conveniently for shipment. The place is much exposed to the prevalent N. E. storms; but it offers a small, well-sheltered harbor among the rocks, where coasting vessels often take refuge. There are on the shores of this harbor 2 fixed lights, 500 to 600 yards apart, and 90 feet above the water. Lat. 42° 88′ 18″ N., long. 70° 84′ 42″ W. Distance from Boston 81 m., N. E. by E.

CAPE BABELMANDEB, formerly called Jebel-Manhali, is a conical basaltic rock, 865 feet high, on the N. side of the strait of the same name, between the shores of Arabia and Abys-

sinia, uniting the Red sea with the Indian ocean.

CAPE BEARN, a promontory of France, on the Mediterranean. On Mount Bearn, which forms its summit, is a first class light-house.

CAPE BLANCO, or Oxford, near the S. W. part of Oregon territory, is near the mouth of Rogue river on the Pacific coast.

CAPE BOEO (anc. Lilyboum Promontorium)

is on the W. coast of Sicily, 1 mile from Marsa-It is the point of Sicily nearest to ancient Carthage, and at an early period became an important naval station. The naval victory of the Romans over the Carthaginians, which put an end to the first Punic war, was gained near this point. CAPE BOJADOR, of western Africa, is

formed by the termination of a range of Mount Atlas, and until doubled by the Portuguese in 1488, had long been the S. limit of European navigation.

CAPE BON, or RAS ADDER, a headland of Tunis, on the Mediterranean, is the northernmost point of Africa.

CAPE BRETON, a British American colony S. E. of the gulf of St. Lawrence, lying between lat. 45° 27' and 47° 5' N., and between long. 59° 40' and 61° 40' W.; area 3,120 sq. m. It is divided from the mainland by the gut of Canso and St. George's bay. The island contains some high land, and the coast is well indented with harbors. The Bras d'Or is a remarkable inlet of the sea, which almost divides the island into 2 parts, and occupies a very large part of the insular outline. It is 55 m. long and 20 m. wide, and varies from 70 to 800 feet in depth. In it there is an island

called Boulardrie island, which contains a li Bras d'Or. Beside these see-water gulfs, the are several fresh-water lakes in the in Granite is found at the Bras d'Or, gypennie ve ous parts. Coal in large quantities exists in island, and upward of 50,000 tons were a in 1851. A rich iron ore is also found. The are about 64,000 acres of land under cultivat producing cereals and root crops, with be and cheese. There is a boundless supply salt and fresh water fish. The inhabitant occupied in agriculture and fisheries; ti carry on domestic manufactures of cloth m flannels. The number of vessels built in 1891 was 24, tonnage 2,598, and of boats 469. T value of imports that year was about \$150,00 and of exports \$260,000. Entrances, 476 w sels, tonnage 43,848; clearances, 377 vanitonnage 85,570. The vessels employed in the fishery of 1851 numbered 21, tonnage 46 with 83 men; and the boats 654, with 135 men. The quantities of fish cured were: fish, 21,458; salmon, 344 barrels; shal, i barrels; mackerel, 9,428 barrels; haria 6,118 barrels; alewives, 58 barrels; while the fish oil obtained amounted to nearly 25 percent of the quantity furnished by the other part of Nova Scotia.—The first settlement in the ideal was made in 1712, by the French, who called it Isle Royale, and who constructed 8 years and ward the fortification of Louisburg, on the S. E. coast. It was taken from them by the S. E. coast. It was taken from them by the British colonists of New England in 1745, as is now included within the government of Kora Scotia, returns 2 members to the Nova Socia house of assembly, and is divided into 8 counties, namely Cape Breton, Victoria, and Inverses. Pop. of both counties in 1851, 27,580; 11,58 of whom are Roman Catholics, 6,968 a of the Free church, 8,452 of the church Scotland, 2,156 of the church of England; the Presbyterian church of Nova Scotia, 106; Ber tists, 581; Methodists, 685; Independe the rest consisting of other denominations, with a small sprinkling of native Indians.

CAPE CARTHAGE, a promoutory of F.

Africa, in the Mediterranean. Traces of the ancient city of Carthage are found near it.

CAPE CATOCHE, a headland at the N.E. extremity of the peninsula of Yucatan Central America. It was on this spot that the Spe first landed on the American contin Bernal Diaz tells us that within 6 miles of cape they saw a large town which they me Grand Cairo.

CAPE CHARLES is at the N. entrance of Chesapeake bay, and forms the S. extremity of Northampton co., Va. N. E. of it, on Smith island, is a light-house with a revolving light.

CAPE CLARENCE is a headland at the M extremity of Jones's sound, Baffin's bay. R is surrounded by inaccessible mountains whose summits are covered with perpetual snow.

CAPE CLEAR, a headland of co. Cork, Ire-

land, is on an island of 1,506 acres, with a lighthouse on an abrupt cliff 455 feet high.

DAPE COAST CASTLE, a town and fort of rica and capital of the British settlements on coast of Upper Guinea; pop. about 10,000. town is regularly built, in a well-wooded poorly watered district, and has a damp, unv climate. It exports gold dust, palm e, and tortoise shell. The settlement erned by a president of council and suborofficers. The fort, which is the best on coast, stands on a granite rock projecting the sea, and has near it 2 small outposts l Fort William and Fort Victoria. S. E. extremity of Massachusetts, and (exng the neighboring islands) co-extensive Barnstable co., already described. This of land, commencing at the line between outh and Sandwich, extends E. about 85 its width beyond Sandwich rarely ex-8 miles. It then bends to the N. and tradually to the N. W., extending about 80 miles ier. The curve still continues around to W., S., and E., enclosing the fine land-locked amour of Provincetown. This latter portion loss not average half the width of the former, s greatly indented by bays, both on the md inner sides. The northern extremity d Race Point. On this there is a revolv-155 feet above the level of the sea, in 5'40" N., and long. 70° 14'48" W. There nowever, many other light-houses upon the the so-called Cape Cod light is on the ds (highlands), 200 feet above high-ater rx, in lat. 42° 2′ 24″ N., and long. 70° 18″ m. This is a fixed light. Cape Cod bay body of water included in the arm of the l opening into Massachusetts bay on the cape Cod was discovered May 15, 1602, by ptain Bartholomew Gosnold, of the bark Conrd of Dartmouth, in an expedition of disvery, made principally at the expense of nry, earl of Southampton, friend and patron Shakespeare. To the "mighty headland," he called it, he gave the name of Cape Cod, m the quantity of codfish taken off its shores. s people landed and spent a day wandering at-the first authenticated visit of whites on the coast of Massachusetts. Captain Gosd cruised around outside the cape to Buzd's bay, and landing on one of the Elizabeth ds spent some weeks exploring, and taking in safras, with which he returned to England. next year, 1603, another English expedition, ploying 2 vessels, 1 of 50 and 1 of 26 tons, de the same voyage, passing also along the e. It continued to be known to the occasional 'agers of this period; but on Nov. 9, 1620, vas especially made memorable by the arrival the Mayflower, which brought to New nd the first company of permanent rs, and the next day cast anchor in the or of Provincetown. ore the company disembarked, was drawn and signed by the males the since famous

spact, by which they became a body polsubject "to such government and gov-

ernors as should by common consent" be chosen. At that time the extremity of the cape does not appear to have been so entirely destitute of agricultural interest as it has since become. The pilgrims found on the shores patches where the Indians had planted corn, and obtained supplies of the grain. Mention, too, is made of their bringing back to the vessel a boat load of juniper. The lower portion of the cape is for the most part a waste of barren sand-hills, covered only here and there with a little beach-grass; among them are found numerous ponds, by the sides of which a little arable land is occasionally obtained; and along the shores are extensive salt-water marshes. Toward the head of the cape pitch-pine and oak trees of several species form extensive forests, in which the pines predominate. In Sandwich and Plymouth is a wide range still occupied by the wild deer, the only place in Massachusetts in which they have not been exterminated. The cape is more destitute of rocky formations than of trees. Not a ledge raises itself anywhere above the sand, nor is one met with by sinking wells, until passing in a northerly direction beyond the bounds of Plymouth. Bowlders are abundant, and often of great size, particularly near the head of the cape. The depth of sand is nowhere known. About Provincetown it is kept in motion by the winds, and its hills are shifting dunes. The curved form of the extremity suggests the possibility of its having been produced by the prevalence and preponderance of the N. E. winds, the heavy surf rolling up the sands upon the shore, and the winds moving them gradually toward the S.W.—Though a sandy district, the cape is no barren waste; its numerous bays furnish many harbors, and about these are pleasant and thriving villages of intelligent and enterprising people. Their chief means of and enterprising people. Their chief means of support are navigation, fishing, and the manu-facture of salt. These towns are the nurseries of seamen, and have furnished the masters of many of the best ships of the American merchant service. They belong to the class referred to by Edmund Burke in his address to the house of commons in 1774, a class then as now favorably known in all parts of the world: "No sea that is not vexed by their fisheries; no climate that is not witness of their toils. Neither the perseverance of Holland, nor the activity of France, nor the dexterous and firm sagacity of English enterprise, ever carried their most perilous mode of hardy industry to the extent to which it has been pursued by this people."

CAPE COLONY, or CAPE OF GOOD HOPE, a colony of Great Britain in the southernmost portion of Africa, between lat. 28° 38′ and 84° 51′ S., long. 18° and 28° E. Area estimated by British authorities at 250,000 sq. m., though it does not exceed 200,000 according to the best German geographers. It is bounded N. by the Gariep, or Orange river, N. E. and E. by the Keiskamma, Great Kei, and Kraai, or Grey river, S. E. by the Southern ocean, S. and W. by the Atlantic, Its greatest length from the Cape pen-

insula to the mouth of the Keiskamma river is over 600 m., its breadth over 400 m. formation of the surface is that of a terraced country rising from the S. coast by a series of parallel chains of rugged and barren mountains toward the broad table-land which extends from the Orange river N. far beyond the tropic. This table-land is marked off to the S. by a mountain range sweeping from lat. 30° in a crescent-like form 2° 30′ S., then E. and N. E., where it connects with the Amatola mountains of Caffraria. Portions of this range are the Roggeveld (rye-field), Nieuwveld (new-field), and Sneeuw (snow) mountains, the highest peaks of which rise to an elevation of 10,000 feet above the level of the ocean. The flats lying back of this girdle of mountains have a hard, clayey soil, without any vegetation except in the vicinity of the Orange river. The 2d terrace (going from N. to S.) consists of the Rough Roggeveld, the Warm (or low) Bokkeveld, the Cold Bokkeveld, and the Great Karroo, a sort of table-land or elevated basin, thinly covered with an argillaceous soil, largely impregnated with iron upon a substratum of rock or gravel. This arid plain, covering an area of over 20,000 sq. m., at a medium height of 3,000 feet, is for # of the year as hard as baked brick, and almost without any vestiges of vegetation. Only in early spring, when the rain, descending in tor-rents, fills the otherwise empty river beds to overflowing, plants appear with surprising rapidity. The W. descent of the 2d terrace is formed by the Kamis and Tulbagh chain, which begins at the mouth of the Elephant river, in wild and craggy isolated rocks of most singular forms, which, coming more closely together as the range sweeps to the E., at last unite in the compact mass of the Karroo. The S. descent is formed by the Zwarteberge (Black mountains) running nearly 400 m. from W. to E., and by a parallel chain running (under the names of Zwellendam, Uteniqua, and Zitzikanma moun-tains) from Worcester S. E. to Zwellendam, thence E. about 200 m. to the mouth of the Great Fish river. The average height of these ranges is 4,000 feet; their greatest elevation, 6,500 feet. The 3d or lowest terrace is the coast district, the S. W. corner of which is filled by the rugged and precipitous Table mountain (8,582 feet), while the Hottentot Holland, or Drakenstein range, radiating near Worcester from the Tulbagh and the Zwellendam chains, sweeps in a southerly direction to the E. coast, terminating in Cape Hanglip. Between this range and the Cape peninsula or Table mountains, there extends a broad sandy plain, the Cape flats, from which it would appear probable that in former times the peninsula was surrounded by the sea. The mountains belong to the sandstone formation, resting upon a basis of granite. Where the granite rises above the level of the surrounding country, it gives rise to many streams of water, but otherwise aridity prevails.—Rivers are numerous, but very few of them are navigable. The more important

flowing into the sea on the S. co Breede (Broad) river, the Gauritz the Camtoos, the Sunday, the Bush Great Fish, and the Keiskamma rive W. coast the Great Berg river, and or Elephant river. The Orange river in 1777 by Capt. Gordon, and named the dynasty of Orange), having a leng m., an average width of 1 m., and rainy season a depth of 50 feet, flor the larger part of southern Africa W.; but only on its upper course is by the colony. The Great Fish rive Infants of the Portuguese) rises also from its mouth. But nearly all the the colony have the characteristics c rents, drying up almost entirely at leaving only shallow pools of brack and again swelling to a formidable ing their courses, which have more re to deep ravines than river beds, to the capacity. In consequence of these most of the rivers are not even suits purpose of irrigation.—The coast is it several bays, viz.: Table bay, False ! bay, Algoa bay, and Waterloo bay. ern coast is full of reefs, and a (Lagullas) extends to lat. 37° 30' ing the navigation difficult and da Two-fifths of the soil of the colo of arid ridges and sandy plains; mainder, a large portion affords exc ture for horses and cattle, but is agricultural purposes on account of the irrigation. The S.W. districts are the producing grain and wine in abundan sive forests cover the S. slope of the and Zitzikamma mountains, but the the country is not inviting. It con roughest mountain scenery, barren a plains, valleys without trees or wat the very picture of dreariness and forming a remarkable contrast to the scenery of Natal and Caffraria. But t backs are in some degree balanced b salubrious climate to be found in For those whose health has been sh the climate of India a residence at t an almost unfailing cure. During tl (Sept. to April), the temperature v 70° to 90° F., and the atmosphere cooled by S. E. winds. The extrem perature in the winter or rainy seas and 60°. The mean of the year is deficiency and irregularity of rains i raced plains of the interior is one of t impediments to agriculture. In some dering upon the Great Karroo, ther no rain during 3 years, but when it it descends in torrents that swell t streams to extraordinary magnitude .ny is not very rich in mineral prode abounds near Algoa bay and Seba copper ore has been worked with or 8 years with considerable succ and coal have also been found;

of Ujtenhage; manganese in the dism or Albany. Lime is prepared in large rom fossil shells, of which extensive been found in the district of Ujten-_.he ' etation of the Cape colony is in richness and variety. It is in richness and variety. ent from that of tropical Africa. ilar to that of Australia, though um troe, one of the prominent features of . Australian flora, is wanting at the Cape. m plants and heaths grow in beautiful proteacea, restracea, and euphorer is scarce. Of indigenous fruits are few; but all kinds of fruit introfrom Europe are grown in abundance. comprises a great variety of wild such as the elephant, rhinoceros, hippous, lion, leopard, hyena, jackal, zebra, sked boar, antelope, monkey, rac-rel; but most of these have become m we thickly settled portions of the country on the immense table-land back of the 8d ain range the antelope, elk, springbok, hant still roam in herds of incredible Yet even there hunting is very dif-The Cape buffalo (bos Caffer), a poweruntamable animal, has disappeared from , and is only met with in the recesses untains. Ostriches abound on the harroo. Large herds of elephants are in Natal. As both sexes of them have of extraordinary size, they are eagerly u by the settlers. The hippopotamus is unted on account of his tusks, which are igher in price than those of elephants. c animals only sheep and dogs are xenous. Horses, asses, mules, goats, and have been introduced from Europe. Benanv kinds of birds of prey, the country elicans, flamingoes, cranes, ibis, snipe, ridges, in numerous varieties. abound on the coast and near mount of the rivers.—The entire popun of the colony was, in 1856, stated to be ersons of color, and 150,000 whites. plored population consists of Hottentots or s, Caffres or Fingoes (a nickname g poor people, given to them by their adversaries, the Zulu Caffres), negroes, malays, the descendants of Malay slaves woodneed in former times by the Dutch. The tots are a weak race, of small stature man 5 feet), a yellow-brownish complexion, sive features, confirming by their apthe opinions of the old Dutch colonists monkey. Those living in the colony ⁵ searned to discontinue many of the most and disgusting habits of their savage , but are lazy, shiftless, and intemperwe been put on an equal footing with the hites their number has rapidly diminished. e Hottentot half-breeds are more industrious d intelligent. The negroes, mostly descend-**VOL. IV.—26**

ants of former slaves or rescued from the slave traders by the British cruisers, are perhaps still more vicious than the Hottentots. They abhor steady labor, and prefer to sustain a vagabond life by pilfering. The Malays are industrious, life by pilfering. The Malays are industrious, akilful, and thriving, but at the same time very passionate, vindictive, and violent. They profess the Mohammedan religion. A cross of the Dutch and Malays, generally named Africanders. are remarkable for the beautiful forms of their The Fingoes, about 25,000 in number. formerly inhabited the country S. W. of Port Natal, whence they were driven by the powerful Zulu tribe. They are rapidly advancing in civilization. Among the white inhabitants of the colony the Dutch element largely predom-While the British for the greatest part live in the towns and cities as merchants, shopkeepers, military and civil officers, &c., the large majority of the farmers are descendants of the original Dutch colonists. These Boers, as they are called, have preserved the leading characteristics of their Dutch ancestors; they are a sturdy, cool-tempered, steady, and energetic race; thrifty, industrious, and of good moral character. The tenacity with which they clung to their customs, their local institutions, and their national character, long rendered them objects of the strong antipathy of the British, an antipathy heartily reciprocated by them. But within the last decade the mutual hatred and distrust have been greatly diminished. Those Boers who live at the outposts of civilization in the immediate vicinity of the savages, are, however, naturally in some degree savages themselves. The Boers are generally well educated, and there are scarcely any among them who cannot read and write the Dutch language. They are also pious and strict observers of all religious customs. Most of the men are tall and herculean in appearance; of the young women many are distinguished for a sort of majestic beauty; but at an advanced age both sexes incline to obesity. According to the 8 principal products of their industry they are known as Wine Boers, Corn Boers, and Cattle Boers. The Wine Boers are the wealthiest. Agriculture is still in a very primitive state, it being impossi-ble to apply skilful and complicated implements on account of the difficulty of having them repaired or replaced. The Cattle Boers are the least educated and worst mannered of the whole class.—According to Herodotus, it is probable that the Cape of Good Hope was discovered by Phoenician navigators as early as 610 B. C. It was 2,096 years later when the Portuguese Bartholomew Diaz reached it. On Nov. 20 1497, Vasco da Gama rounded the cape and pursued his course to India. But the Portuguese did not pay any attention to the Cape country. It was not before A. D. 1650 that the Dutch East India company established a colony there, in order to raise provisions for vessels going to India. In 1852 Cape Town was strongly fortified. The colony prospered ad-mirably in spite of continued hostilities between

An attack the settlers and the native tribes. of the British during the American revolutionary war was repulsed, but in 1795 the colony was conquered by the British forces under Ad-Though miral Elphinstone and Gen. Clarke. restored to Holland in 1808, it was annexed once more to Great Britain in 1806, and finally ceded by Holland in 1814. The application of the British colonial system to the Cape country, the curtailment of the privileges formerly enjoyed by the settlers, the emancipation of the Hottentots in 1838, and the general tendency of the British rulers to put the savage native tribes on an equal footing with the settlers, disgusted the Dutch Boers, who after a protracted struggle of more than 20 years succeeded in establishing 2 independent republics beyond the boundaries of the colony. (See Borns.) Beside these movements of the Boers, the history of the Cape colony under British rule consists mainly of wars with the Caffres. Five distinct wars were carried on against them, viz.: 1811-'12; 1819, by which the boundary of the colony was extended to the Keiskamma river; 1885, when the country lying between the Keiskamma and Kei rivers was annexed to the colony, but afterward restored; 1846-'48, in consequence of which the country between the Keiskamma and Kei rivers was constituted by Gov. Sir Harry Smith as a vassal state under the name of British Caffraria; and 1850-'58, when a formidable insurrection of the Caffres, resembling in many respects the Indian rebellion of 1857, was suppressed with great difficulty and after many reverses of the British arms. In order to tranquillize the Caffres and to keep them in permanent subjection, the British government established in 1856 and '57 a military colony in British Caffraria, consisting of several. thousand members of the German legion, which had been organized during the oriental war by Gen. Stutterheim. Nevertheless, in the spring of 1858 one of the most powerful Caffre chieftains, Moshesh, chief of the Bosutus, who number about 20,000 warriors and had been subjected by the British in 1852, rose in arms against the Orange river republic, and it was anticipated that he would also invade the neighboring British province.—Ever since the emigration of the Boers great discontent had prevailed in the colony because of the want of a free representative government. When, in 1848, the British government proposed to send a number of convicts to the Cape, this discontent grew almost into open rebellion, compelling the government to desist from its purpose. It became evident also, during the Caffre war of 1850, that the colonists were unwilling to sustain a government which denied them rights that had been granted to the inhabitants of other colonies. Having at last become aware of this state of things, the British government in 1853 yielded to the demands of the colonists, and granted them a constitution which from an English point of view is very liberal. The colony is divided into 2 provinces, the western, comprising 8 di-

visions (counties) 10 divisions. The w the capital, Cape Town are Wynberg, Constantia (Constantia wine derives it Town. The whole Cape pe 6 to 8 m. broad) is included in ince.—The eastern province is a new country, having hardly b 1820, when 5,000 Scottish there by the home government towns are Graham's To and Port 1 Every division is p ed commissioner, who trate, or justice of the prited civil and criminal jurisuscion. sions are subdivided into district resident magistrate of its own. are again subdivided into feld co which the feld cornets (meaning chief constables) are the princil legislative authority of the colony governor, who is appointed by the chambers called legislative or cil Eight members from the weeastern province, chosen for a v 1 of lu by the whole body of electors upon a general ticket, constitute no one can be elected who is not of £1,000 worth of landed property or worth of landed and personal property tAny elector may give to one votes as there ULY, 20 M The members of : elected for a term of 5 years by we election districts. The qualification of is the occupation of fixed prop The governor may dissolve bo the assembly. The queen assented to by the governor, wimits receipt.—The colonial gove utes to the support of clergy: Christian denominations. The bers of the principal deno 1854: Dutch Reformed 60,06 land 12,000, Wesleyans 10,000, lics 8,500, Independents 7,000, 1 Free schools are provided funct. There are also 2 colleges The industry of the colony is Manufactories of soap, wagons hats produce scarcely enough for l The internal commerce developed in consequence of the of communication, but the impor trade has greatly increased un rule, as may be seen from the

1886 £241,028 1840 782,434 1849 944,585 1850 1,977,161 1858 1,651,667

The exports include also goods r value of the produce of the colour 1853 was £732,245. The p

col, wine, hides and skins, aloes, ory, estrich feathers, beeswax, s. The exports of wool to Eng-107 bales from Jan. 1 to July 1, 80 bales during the same period total exports in 1853 were

The total value of exports from sessions in Africa to the U.S. ar ending June 30, 1856, was during the same period ending 1, \$698,275. The imports from inted in the respective periods to \$687,745. The revenue of risen from £180,808 in 1832, to 53, while the expenditures in the re only £126,889 and £268,111

ORIN, the most southern extreman, in the native state of Trav-5' N., long. 77° 87' E., forming a andy point, which is not discerndistance of 12 to 16 m. from the e ship. Eighteen m. north from old summit called Comorin peak, rmination of the western Ghauts, n a distance, been often taken for

Within a short distance of the ky islet, high above water; and n this islet are a fort and a village, n's houses, a church, and some s, being the remains of the once f Cape Comorin.

MOND is the extremity of an abry of Lower Canada, at the junc-Charles and St. Lawrence rivers. tory stands the citadel of Quebec, and nearly on a level with the e plains of Abraham. Here was i, the memorable victory by the Wolfe, over the French, under

NATO, the S. extremity of Santa the Ionian islands. It is identincient promontory of Leucadia, ad the Lover's Leap. The poetaid to have thrown herself from promontory.

ZABETH, a headland projecting y, between Portland harbor in a Atlantic ocean. The coast is p of ledges of talcose slate, travof trap. There are 2 light-houses int, which stand 300 yards apart, feet above the sea.

ICHEL (probably the ancient omontorium) is on the W. coast 1 m.S. W. of Lisbon. It rises able sea, and is crowned by a small light-house. It is of a whitish f. and reddish on the S. side.

REWELL, the S. extremity of t the eastern entrance to Davis's ong current sets around this cape, N. along the E. coast of the strait. O (anc. *Pelorus*), the N. E. exily. It is at the narrowest part of the strait of Messina, opposite the rock of Scylla, on the coast of Calabria. The hill above the cape is fortified.

CAPE FEAR, the S. point of Smith's island, near the mouth of Cape Fear river, N. C. About 1 mile from the shore stands Bald Head light-

CAPE FEAR RIVER is formed by the union of Haw and Deep rivers at Haywood, Chatham co., N. C. It flows S. E. and enters the Atlantic by 2 channels, between which lies Smith's island. The water is from 10 to 14 feet deep over the bar at the main entrance. This is the largest and most important river which lies wholly within the state, and the only one in N. C. which flows directly into the sea. It is navigable by steamboats to Fayetteville, 120 m. from its mouth, and by means of dams and locks a communication has been opened with the coal mines of Chatham co. At Averysborough, the river falls over the ledge which separates the hilly from the low region of the state. After this, it flows through a flat, sandy district, partially covered with extensive forests of pitch pine. Its length, including one of the head branches, is about 300 m.

CAPE FRIO (Port. Cabo Frio, cool cape), a promontory on the coast of Brazil, with a light-house. It forms the terminus of a range of mountains running parallel to the coast, and consists of a huge oval mass of granite.

CAPE FROWARD, the southern extremity of S. America; lat. 53° 53′ 42″ S., long. 71° 18′ 30″ W. It is a bold promontory of dark slaty rock.

CAPE GASPÉ, a headland of Canada, and the N. boundary of the bay of Gaspé, in the gulf of St. Lawrence. The bay, which is 18 m. long and 6 m. wide, forms a secure harbor. The cod and whale fisheries are extensively carried on off its shores.

CAPE GIRARDEAU, a county of Missouri; pop. in 1856, 12,349, of whom 1,300 were slaves; area, 875 sq. m. It is separated from Illinois on the E. by the Mississippi river, and is drained by the head streams of the Whitewater, and by Apple creek. Abundance of good timber is found, and the cypress especially grows in nearly all parts of the country. The surface is level, and the fertile soil is carefully and extensively cultivated. The productions in 1850 were 510,730 bushels of Indian corn, 52,640 of wheat, and 65,677 of cats. There were 39 corn and flour, and 9 saw mills, 2 newspaper offices, and 10 churches. The first settlements were made by French and German emigrants, in 1794. Capital, Jackson.—Cape Girardeau, a post village of the above county, has a good landing on the Mississippi river, and is the seat of St. Vincent's college.

CAPE GRISNEZ (anc. Itium Promontorium) is a headland of France (Pas-de-Calais), and the nearest point of the French coast to Great Britain. It has a revolving light 195 feet high.

CAPE GWADEL, or Ras Noo, a peninsula of Beloochistan, on the Indian ocean. It is about 6 m. wide, and across its isthmus extends a ruined wall, near which stand the remains of a town, and a village of huts. On each side of the cape is a harbor; that on the W. side

affords good anchorage.

CAPE HATTERAS, the easternmost point of N. C., a sandy insular spit, or narrow beach, separated from the mainland by the broad bay, called Pamlico sound. S. of the capes of the Delaware, no land stretches so far out into the Atlantic as Cape Hatteras. The gulf stream, in its E. and W. vibrations, often flows within 20 m. of the cape, crowding coasting vessels bound S., and consequently seeking to avoid the N. E. current, near to the shore. The difference of temperature between the hot airs of the gulf and the breezes along shore and from the land engender frequent commotions in the atmosphere at this place; and no point on the coast is more noted for its frequent and dangerous storms. A light-house is kept 11 m. N. of

the outermost point.

CAPE HAYTIEN, or HAITIEN, formerly Cape Français and Cape Henry, a seaport town on the N. coast of the island of Hayti. Before the Haytien revolution broke out it was a handsome city, and some traces of its former elegance still remain. It has the safest harbor of Hayti, tolerably defended, and a fair trade with the United States, Great Britain, France, and Germany. In 1789 it had 18,500 inhabitants; before the earthquake of 1842 it had still 9,000, but in 1851 the population had diminished to about 6,000. In 1854, the entrances and clearances consisted of 190 foreign vessels, tonnage 30,970, and of 14 coasting vessels, 2,267.

CAPE HENRY, on the coast of Va., at the southern entrance of Chesapeake bay, has a fixed light 120 feet above the level of the sea.

OAPE HORN, also written CAPE HORN, is a headland of an island of the Fuegian archipelago. It is a steep, black rock, with bare and lofty sides and pointed summits. It was formerly considered a very dangerous place to pass, but the difficulties of "doubling the cape" are now far less formidable. It was first discovered by the English navigator, Sir Francis Drake, in 1578, unless he was anticipated, as is claimed, by Garcia Jofre de Loaya, a Spanish commodore, in 1525, although it was first doubled by the Dutch navigators, Lemaire and Schouten, in 1646, the latter of whom gave it the name of his native city (Hoorn).

CAPE ISLAND, or CAPE ISLAND CITY, on Cape Island, Cape May co., N. J., is one of the most fashionable watering places in the U. S. During the summer months it has daily steamboat communication with Philadelphia, and the majority of the visitors who throng its hotels are from that city. Permanent pop. 600.

CAPE LA HAGUE (improperly written La Hogue), a headland of Normandy, France, is opposite the island of Alderney, and forms the N. W. extremity of the peninsula of Cotentin, in the English channel. It is often confounded with Cape La Hogue, on the opposite

the French, y 12-1

CAPE LandUETLA, 2 1

pean Turkey, 2,290 feet in 1

termination of the Chi
mountains, and b

Adriatic.

e of (

CAPE LOOKOUT, on the E. coast of N.C., has a light 100 feet above the sea.

CAPE LOPATHA is at the S. extremity of Kamtchatka. At the northern part of the healand is a mountain, bearing the same name, whence the land gradually slopes and nerrors until it terminates in a low and barren toogsa.

CAPE LOPEZ, the S. extremity of the bight of Biafra, on the W. coast of Africa. It forms a large bay, 14 m. long, into which empty several shallow rivers and creeks.

CAPE MAY, a county at the 8. extremity of N. J.; area 250 sq. m.; pop. in 1855, 6,935. Its L. boundary is formed by the Atlantic; Delaware bay washes its W. shore, and Tuckshoe creek makes a part of its N. border. The surface is level and the soil entirely alluvial. The productions in 1850 were 84,915 bushels of Indian corn, 16,884 of wheat, and 11,027 of ea There were 8 grist and 12 saw mills, 19 churche and 1,860 pupils attending public schools. On the Atlantic coast is a beach, covered for the width of from 11 to 2 m. with grass. Through numerous inlets which divide this beach the ses penetrates into the marshes, about 4 m. in width, and forms lagoons or salt water lakes. In the N. part of the county in a similar massi Near Dennisville is a deposit of ceder timber in the soil to an indefinite depth. From the growth of vegetation above it, it is believed to be at least 2,000 years old, yet it is perfectly sound, and a number of persons are engag digging it up and converting it into post, she glea, &c. This county was organized in 1716, and named in honor of Cornelius Jacobs My, a navigator in the service of the Dutch Ver India company, who visited Delaware bay is 1623. Capital, Cape May Court-house.—Cars May, a headland at the S. extremity of N. J. at the entrance into Delaware bay. It has light which revolves once in 8 minutes, elevation of 90 feet above the sea. See Care ISLAND

CAPE MOUNT, a river of W. Africa, emptying into the Atlantic. The district of Cape Mount, with its rivers, lakes, and islands, we deeded to an English company by the king of the territory. Feb. 23, 1841.

the territory, Feb. 23, 1841.

CAPE NAU (anc. Lacinium Promoutorius).

a headland of S. Italy, at the E. entremity of Calabria Ultra, was once the site of a temple dedicated to Juno Lacinia. Hannibal is said to have embarked here on leaving Italy, 208 R.C.

CAPE NEDDOCK, a promontory of Main, 35 m. S. W. of Portland, with a light-bone on Goat island near it, containing a fixed light 35 feet above the sea.

CAPE NOONIAGMO, or Nousiass,

extremity of Lawrence bay, on the sia, not far from the point where it nearest to the American continent. IORTH, a celebrated headland at the ity of the island of Mageroe, Nornorthernmost point of Europe. It a long chain of precipitous rocks tt into the sea. They are about high, and are crowned partly by a ible-land and partly by pyramidal it. 71° 10′ N., long. 25° 46′ E.

NORTH, or Otoo, Otov, a peninsula extremity of New Zealand, about 2 id terminating in a bluff head flat at

OF GOOD HOPE, or CAPE PEAK, & ontory rising nearly 1,000 feet above the S. point of a narrow peninsula, near the S. W. extremity of the confrica, having the Atlantic ocean on d False bay on the E., 81 m. S. of 1. Lat. 84° 22′ S., long. 18° 29′ E. 'ILLAR, a high mass of rocks, tera 2 tower-shaped cliffs, at the S. W. om the Pacific ocean into the straits n, and on the N. W. coast of Terra

'RINCE OF WALES, a promontory g's sea, the most N. W. point of rica. It terminates in a peaked presenting a bold face to the sea, and ous point on account of a shoal which o the N. E.

IVER, or VAUNES, called also, from vn near its source, Rio de Segovia, is Jentral America, in the state of Nic-1 the Mosquito territory. It flows fertile country, and after a course of m., enters the Caribbean sea at Cape Dios. It is navigable for a considerae from the sea, but the upper part of is obstructed by cataracts and shal-

OMAIN, a low and barren point of a light-house, 87 m. N. E. of Charles-

3ABLE, the southernmost point of nd of Florida, and the site of Fort

3T. AUGUSTINE, the easternmost uth America, on the coast of Brazil. in by Pincon in 1500, and was the iscovered in South America.

iT. VINCENT (anc. Promontorium headland at the S. W. extremity of Off this cape, Feb. 14, 1797, an val force, consisting of 15 ships of der Admiral Jervis, defeated a supe-

ANTONIO. I. A high, barren, itous headland, on the coast of Vain. On its summit are a convent, wer, and several windmills. II. A arly perpendicular promontory, at of the Rio de la Plata, in the terrienos Ayres,

CAPE SAN BLAS, a low point of land,

about 2 m. long, on the S. coast of Florida. It has a revolving light 65 feet high.

CAPE TAIMOOR, TAIMOUR, TAIMOUR, or TAYMOUR, a headland of Siberia, extending into the Arctic ocean. Next to Severo Vostotchnoi, it

is the northernmost promontory of Asia.

CAPE TINDARO, a headland of Sicily, extending into the gulf of Patti. The remains of the ancient Tyndaris are in its neighbor-

OAPE TRAFALGAR (anc. Promontorium Junonis), a headland on the coast of Cadiz, Spain. It is memorable for the naval battle fought near it, Oct. 21, 1805, between the English, under Nelson, and the combined fleets of France and Spain. The English gained a complete victory, though with the loss of their commander.

CAPE TOWN, the capital of the British territory in S. Africa, lat. 88° 55′ S., long. 18° 21′ E., situated at the bottom of Table bay, and at the foot of Table mountain, about 32 m. N. of the Cape of Good Hope. The town is well built and well laid out. There is a fortress near the town of considerable strength. Table bay is capacious, but the anchorage is rendered uncertain by the heavy swell of the Atlantic, which rolls its full volume against the coast. Cape Town is a station for astronomical observations, and Sir John Herschel passed 2 years at this port for the purpose of studying the heavens of the southern hemisphere. There is a castle and several batteries for the defence of the town and harbor. The chief public buildings are the government house, the colonial office, the barracks, the exchange, the post-office, the public library, 8 Anglican and 4 English dissenting churches, a Dutch Reformed church capable of holding 2,000 persons, and a handsome Roman Catholic church. The streets are laid out at right angles, and some of them are embellished with trees. Most of the houses are built of brick, faced with stucco; the interior is commodious, and some of them, in the older parts of the town, are decorated with architectural devices, and have in front raised platforms called stoeps. There is a capacious public walk, on one side of which are the gardens of the government house, and on the other the bo-tanical garden. For imports and exports of Cape Town see Cape Colony. Pop. about 25,000.

CAPE VERD, the most westerly cape of the W. coast of Africa, between the rivers Senegal and Gambia; lat. 14° 48' N., long. 17° 84' W. It was discovered in 1445 by the Portuguese

navigator, Diniz Fernandez.
CAPE VERD ISLANDS, a Portuguese colony situated in the Atlantic ocean, 320 m. W. of Cape Verd, between lat. 14° 45′ and 17° 18′ or Cape verd, between ist. 12 35 w; area, about 1,700 sq. m.; pop. in 1854, 86,488. The islands are of volcanic origin, and a volcano still exists on the island of Fogo. The aboves are low, but in the interior there are high moun-

tains. The archipelago consists of 10 islands and 4 islets. The 10 islands are, Sal, Boavista, Mayo, Santiago, Fogo, Brava, Grande, Rombo, São Nicolao, and Santa Luzia; the 4 islets are, Branco, Razo, São Vicente, and Santo Antonio. The soil is dry but fertile. The heat of the sun is great, but the climate is tempered by the sea The rainy season lasts from the middle of August to November, and is unhealthy for Europeans. There is a great want of water and trees. Sometimes no rain falls for several seasons, and then the distress of the inhabitants is extreme. In 1832, after a 8 years' drought, 30,000 people perished. All the fruits of the S. of Europe and the W. of Africa flourish here, particularly oranges, lemons, melons, and bananas; so do rice, maize, wine, sugar, orchil, cotton, and French beans. Coffee was introduced in 1790. Indigo grows Indigo grows wild. Goats and fowls are very numerous; goat-skins are a principal article of export. Asses are reared and exported to the West In-dies. The most remarkable of the wild animals are monkeys and bisam cats; venomous reptiles are unknown; whales are found in the neighboring seas, and turtles frequent the coasts. Salt, which is exported to North America, is manufactured on these islands. The total value of exports to the United States for the year ending June 80, 1856, was \$86,910; and of imports from the United States, \$53,709. In the same period, ending June 80, 1857, the value of the exports to the United States was \$25,905, and of the imports \$64,503, the latter amount comprising \$63,108 of the growth, produce, and manufacture of the United States, and \$1,895 of the growth, produce, and manufacture of foreign countries exported from the United States.—The natives are docile, indo-lent, and very religious. The Roman Catho-lic is the only form of worship. There are 12 schools upon the islands. Mulattoes, a cross between Portuguese and negroes, form the next most numerous race; the whites constitute about $\frac{1}{\sqrt{5}}$ part of the population, the slaves $\frac{1}{\sqrt{5}}$. The language is corrupted Portuguese, which the Portuguese call linguage orecula. As the sea between the continent and the islands is beset with haze and fogs during the greatest part of the year, ships sailing southward generally steer outside of the Cape Verd islands. The inhabitants have some commerce with Africa. The most considerable island of the group is Santiago, which is about 50 m. long and 23 broad in its widest part. It has a population of about 12,500 inhabitants. governor resides at Porto Praya, a fortified seaport town on this island, with 1,200 inhabitants. The volcano of Fogo rises to the height of 9,157 feet. The islands were discovered in 1449 by the Portuguese, in whose uninterrupted possession they have ever since remained. On Jan. 1, 1857, there was a military force in the island of 3,028 men. The receipts of 1857-58 are estimated at \$100,000, and the expenditures

at \$140,000.

CAPE VINCENT, at son co., N. Y.; pop. & the St. Lawrence, at the and Watertown railroad,

landing and a ship yard.

OAPE WRATH, a promoutory at the 8. W. extremity of Scotland. It consists of a pyranic of gneise, 300 feet high, and surmounted by a light-house. The light is 400 feet above the

CAPECE-LATRO, GIUSEPPE, an Italian prelate and statesman, born in Naples, Sept 23, 1744, died Nov. 2, 1836. He belonged to on of the oldest Neapolitan families, and when very young was appointed to the archbishopric of Tarento, which gave him the rank and privileges of primate of the kingdom of Naples. His ecclesiastical advancement did not withdrawhin from philosophical studies, and while deveted to his duties as a priest of the Roman Catholic church, he at the same time opposed many of the claims of the papel see. One of his eriy writings upon the tribute paid by the kingdom of Naples to the court of Rome excited cosiderable attention. He caused a greater commotion by his work against the celibery of priests, an institution which he maintained to have been the principal occasion of the Protetant reformation, and to be still the main some of the antipathy to the Catholic church, felt by a great number of its opponents. When the reve tionary spirit began to manifest itself in Italy. Copece-Latro directed the attention of Queen Carline to the abuses in the government, but he was not listened to. When the revolution at length broke out, in accordance with the wishes of the people he accepted a public office. Upon the restoration of the Bourbons, Capece-Latre VIII thrown into prison, and marked out as one of the first victims of sacrifice. But all parties deciding and uniting to save him, the govern ment was forced to release him, and offere him his liberty as an act of royal cless The prisoner would not take freedom on sed terms. Refusing favor, he demanded justice. and the king found himself obliged to make excuses to him. During the government of Joseph Napoleon at Naples in 1808, Capece-Late VIII minister of the interior, and continued in the position with distinguished success prelate lost his archbishopric; he withdwe from public affairs, and made his house a place of reunion for persons of distinguished rest of wit. His last work was in present of the first of the control of Prussia.

CAPEFIGUE, BAPTISTE HOSTORE RAYSON French historian, born in Marseilles in 1801. He was the school-mate of Thiers and Mig 1821, the 3 repaired to Paris to study is soon became engaged in historical studies politics. Capefigue joined the royalists, a newspaper. In 1828 he attracted som tion by his Récit des opérations de l'armés P çaise en Espagne. The same year he publi

his first historical book: Essai sur les invasions de Normands dans les Gaules. From that time he pursued, with unfailing activity, his twofold task of historian and journalist. In 1827 he gained considerable reputation by his Histoire de Philippe Auguste, which is still considered his most valuable performance. He has since been an important contributor to several newspapers, most of them in the royalist interest. He has also published numerous historical works. He has thus treated the entire annals of France from the 10th century to our time, the whole forming a little less than 100 volumes, one-third of them devoted to the last 75 years. Although they contain valuable information and curious documents, they cannot be compared with the histories of Thiers, Mignet, Michelet, Augustin Thierry, and Guizot.

CAPEL, ARTHUR, lord, an English royalist elected to the long parliament in 1640, died March 9, 1649. He voted for the death of Strafford, and then returning to the cause of Charles I, raised and maintained a troop in his interest, and fought against the parliamentarians at Bristol, Exeter, Taunton, and Colchester. Captured in the last city, he was condemned for treason, and met his death with firmness. He wrote "Daily Observations or Meditations, Divine, Moral, and Political."—His son, also named Arthur, born in 1635, created earl of Essex by Charles II. in 1661, was lord lieutenant of Ireland, 1672-'7. Afterward involving himself among the enemies of the court, he was arraigned for participation in the Rye-House plot, and was found with his throat cut in the tower, July 13, 1683.
CAPELL, EDWARD, a Shakespearian com-

mentator and critic, born at Troston, in Suffolk, England, in 1713, died in London, Feb. 24, 1781. Under the patronage of the duke of Grafton, he became deputy inspector of plays, an office which left him leisure for his Shakespearian studies. He published his edition of the works of Shakespeare, 10 vols. 8vo, 1767, "Notes and Various Readings of Shakespeare, 4to, 1775, and the "School of Shakespeare," 3 Vols. 4to. 1783, was issued 2 years after the au-His labors continued for more thor's decease. than 40 years.

CAPELLA, MARCIANUS MINEUS FELIX, & writer who flourished in the 5th century, but of whose life little is known. He was probably a native of Carthage. His principal work is a curious allegorical medley in prose and verse, composed in imitation of Varro's Satyra Menippea and Petronius' Satyricon, and entitled Satyra de Nuptiis Philologia et Mercurii. consists of 9 books, of which the first 2 describe the marriage of Philology and Mercury, and the remaining 7 treat of the liberal sciences. pernicus is supposed to have derived a hint of his system from an assertion in one of these books that Mercury and Venus revolve about the sun, and Boothius is said to have taken from Capella the model of his Consolationes Philosophica. The best editions of Capella are those of Hugo Grotius, 8vo, Leyden, 1599, and

Kopp, 4to, Frankfort, 1836.
CAPELLO, Blanca, grand duchess of Tuscany, born in Venice, 1542, died at Poggio, Oct. 19, 1587. In 1568 she eloped with a banker's clerk, of the name of Pietro Buonaventuri, who, barely escaping from the vengeance of her father, put himself under the protection of Francesco de' Medici at Florence. Bianca's beauty and accomplishments fascinated Francesco, and although but recently married to Joanna, archduchess of Austria, he caused the fair Venetian to reside in his palace, attaching her husband to his household as steward. In 1570, when the arrogance of Buonaventuri became unbearable, he was put to death by order of Francesco, who, on the decease of his father Cosmo I, ascended the throne of Tuscany. Bianca presented him with a son Aug. 29, 1576, which however was not her own, but was procured from a poor woman, and in order to preclude the detection of the imposture, she caused the assassination of most of those who had assisted her in its perpetration. In 1577 Joanna of Austria bore a son to the grand duke, and as she soon afterward died, while she was pregnant with still another child, Francesco was, for a moment, overcome with contrition and remorse, and seemed disposed to discard Bianca; but the cunning woman knew how to beguile her lover, and in two months he married her. The marriage was approved of by Philip II. of Spain, and solemnly ratified by the republic of Venice, the official marriage ceremony taking place In 1582 Francesco's son by in Oct. 1579. Joanna of Austria died, and as there was no prospect of seeing her supposed son adopted as heir to the throne, Bianca endeavored to reconcile herself with Francesco's brother, the cardinal Fernando de' Medici, who, in all probability, would succeed him as grand duke. In Oct. 1587, the 2 brothers and Bianca met at Poggio, and a few days afterward the grand duke and Bianca were taken suddenly ill with the same disease, of which they both died. Bianca had ever been an object of hatred to her brotherin-law, and it was believed that Fernando had poisoned her with her husband; but there is no judicial or historical evidence to support the supposition.

CAPER, the flower bud of a low shrub (capparis spinosa), which grows on walls and ruins, or on rocks and accumulations of rubbish, in the south of Europe and the Levant. It is very common in Italy and in the southern parts of France. It grows wild upon the walls of Rome, Florence, and Sienna, and is cultivated on a large scale between Marseilles and Toulon, and also in many parts of Italy. It begins to flower in the early part of summer; and flowers continuously until the commencement of winter. The buds are picked every morning before the petals are expanded, and are put into vinegar as they are gathered. They are distributed according to their size into different vessels and prepared for the market; the youngest and the smallest, being most tender, are the first in quality; and hence the different sizes are placed in separate vinegar jars, denoting difference of quality and value. The stems of the caper bush are trailing and 3 or 8 feet long. The leaves are alternate, ovate, veined, and of a bright green color. The flowers are white, large, and beautiful, with a tinge of red. They are divided into 4 petals, and from the centre of each flower springs a long tassel of deep lilac stamens. The brilliant blossoms give a very gay appearance to the plant.

give a very gay appearance to the plant.

OAPERNAUM, a city of Palestine, often mentioned in the New Testament, and memorable as the scene of many of the works of Jesus. The neglect of the inhabitants to profit by the instructions that were given them led to the wellknown declaration of Matt. xi. 23. This ancient city seems to have been on the W. coast of the sea of Genesareth; but travellers have not been unanimous in pointing out its locality. A long series of traditions identified it with a ruined village, known at present as Khan Minyeh, until the 17th century; since then it has generally been fixed at Tell Hum, a spot further N. on the seacoast. Dr. Robinson inclines to restore the ancient tradition, for reasons which he gives at length in his "Biblical Researches in Palestine and the Adjacent Regions," vol. iii., pp. 348-

858. CAPERS, WILLIAM, D.D., an American clergyman, late one of the bishops of the Methodist Episoopal church south, born in St. Thomas' parish, S. C., Jan. 26, 1790, died at Anderson, S. O., Jan. 29, 1855. He received the degree of A.M. from South Carolina college, and subsequently the honorary degree of D.D. In 1809 he was received into the S. C. conference, filling some of the most important stations in its bounds. In 1821 he was appointed missionary to the Indians in western Georgia, and travelled extensively throughout the state pleading the cause of missions. The year following he established a mission among the Creek Indians on Flint river. In 1825 he was stationed in Charleston, where he remained as preacher in charge and presiding elder for 6 years. For a part of this time he edited the "Wesleyan Journal," which was subsequently merged in the "Zion's Herald," and now bears the name of the "Christian Advocate and Journal" in New York. In 1835 he was elected professor of the evidences of Christianity in the university of S. C., a post which he afterward resigned to take charge of the "Southern Christian Advocate." After remaining in the editorship of this paper 5 years, the general conference appointed him to the office of general missionary secretary for the south, the north being assigned to Dr. Bangs, and the west to Dr. now Bishop Ames. This appointment he held until the ensuing general conference, during which time he travelled extensively over the south, presenting the claims of missions upon the attention of the church. At the first general conference of the M. E. church south he was elected and consecrated bishop (1846), which office he filled with

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E u. exer dae nee denomination.

CAPET, the nickname of Hugues, or Hagh
the 1st king of the 8d French dynasty. Casiderable difference exists among the learnel
concerning the etymology of this appellation.
Pasquier derives it from a half Latin wed
meaning head or chief; Du Cange, from elegan,
a provincial word of Auvergne, measing a
jester, as Hugh, during his early youth, we
wont, by way of jesting, to throw down the
caps of his companions; others from espita, a
large head; others from chapatus, a man wering a cope, a sacerdotal clock. Indeed, the first
Capetians were abbots of St. Martin at Tem
and King Robert, the son of Hugh, used to say
at vespers arrayed in the sacerdotal clock; the
old banner of the same king was simply a &
Martin's clock.

CAPETIANS, the 3d race of French kin beginning with Hugh Capet. Their or is usually traced back to Robert the Str a warrior of Saxon descent, who held in I from Charles the Bald the county of A and afterward the duchy of France. gained great popularity by his struggles the Norman pirates who invaded Friduring the 9th century. Three of his description ants, Eudes, Robert, and Raoul, and title of king in competition with the Carle gian princes; but the crown was not first established in this family until the election of Hugh Capet. This appears to have been a limit of national protest on the part of the Gall French population against the descendant of Charlemagne, who then depended on German princes. The Capetians, several of whom were distinguished as able politicians or gre riors, strengthened their position by cla ance with the clergy, and the assistance they a ceived from the communes or municipal size They were 14 in number, and reigned from \$67 to 1328, as follows: Hugh Capet, Robert the Piers, Henry I., Philip I., Louis VI. the Fst, Lens VII., Philip Augustus, Louis VIII. Louis II. or St. Louis, Philip III. the Bold, Philip IV. the Fair, Louis X., Philip V., and Ches From this main stock issued several or branches, the most important of which the following: Robert, the grandson of He Capet and brother of Henry I., in 1033 feeds the first ducal house of Burguady, which is 1921. Pierra the 6th see became extinct in 1861; Pierre, the 8th Louis VI., married Isabelle de Courtes had 8 descendants who reigned at O tinople during the 18th century; Charles, of Anjou, the 8th brother of St. Louis, va head of the first house of Anjou, which had

of Naples from 1264 to 1882.

sou of the holy king, Robert, count of ut, was the head of the house of Bourwhich succeeded to the French throne in while his grandson, Charles, the brother ip the Fair, founded the house of Valois, ame into possession of the crown on the on of the direct Capetian line.

e sp es of judicial writs in actions at , which command the sheriff or officer to take a party or property named. capias ad respondendum, which orders the ser "to take the body of the defendant and keep the same to answer" (ad respondens), is the writ ordinarily referred to by the

n capias when used alone.

APILLARY ACTION (Lat. capillus, a hair), mnifestation of the force of adhesion shown the movement of a fluid upon a solid surface ced partly within the fluid. It is called capilly because it is most striking on the inside of ysmall tubes—capillary (hair-like) tubes. If solid can be wet by the fluid, the fluid will a in the tube, or on any surface, as water on for wood. If the solid cannot be wet by the fluid will be depressed in the tube, as it is depressed in a glass tube. Capilly according to the solid cannot be wet by the fluid will be depressed in the tube, as it is depressed in a glass tube. Oapily according to the solid cannot be wet by the solid cannot be wet by the fluid will be depressed in the tube, as it is depressed in a glass tube. See Laplace's way across the solid cannot be solid cannot b

canique céleste, vol. iii. OAPILLARY VESSELS, minute vessels inliate between the arteries and veins,
l branches of the former and the so or the latter; they are found in alevery tissue of the animal body, commufreely with each other, and forming networks or plexuses, whose inter-close in proportion to the importance a lactivity of the organs. Their walls composed of a delicate membrane, without fibres, often presenting on its external by oblong nucleated cells. The diameter lifferent animals according to the size wood globules; in man it is from the $\mathbf{r} \mathbf{\omega}$ the $\mathbf{r} \mathbf{\sigma} \mathbf{\sigma} \mathbf{\sigma}$ of an inch. The dimensions not constant, but vary according to disturbcauses in the general or local circulation. existence of capillaries too small to admit a id globule, and adapted only for the recepof the serous portion of the blood, is not I by the best physiologists of the pres-7, and therefore the idea that nutrition be carried on by means of capillaries be abandoned; some tissues, as cartilage, 3 no vessels, and yet they are nourished by blood, whose nutrient materials are abed by the tissues nearest the vessels and I them passed on to the cells of the nonular structures. Such is the relation been the plan and minuteness of the capillary work and the character and function of the supplied, that it is possible to judge with ble accuracy of the part from which a

specimen has been taken. The network is the closest where some change is to be effected in the blood itself, as in the lungs and glands, and the most open where the blood is received merely for purposes of nutrition of the tissue; in the nervous centres and the muscles the network is fine, on account of the required activity of their molecular changes. In warm-blooded animals the rate of the capillary circulation is about $\frac{3}{100}$ of an inch in a second, or 13 inch in Comparing this with the rate of movement in the larger arteries (about 11 inches in a second), Volkmann has calculated that the aggregate area of the capillaries must be nearly 400 times that of the arteries which supply them. The movement of the blood through the capillaries is principally dependent on the force of the heart and the contraction of the arteries; but the circulation of the lower classes of animals, and of plants, proves that there is some power independent of that of a central organ sufficient to move the blood in these vessels—a power originating in the vessels and intimately connected with the activity of the processes of nutrition and secretion. The capillary circulation may continue after the cessation of the action of the heart, may cease in certain parts while the heart is actively contracting, and is constantly retarded and accelerated by causes of entirely local character. the web of a frog's foot be examined under the microscope, the current is seen at one time slow, at another rapid, sometimes in one direction. sometimes in the opposite, and occasionally perfectly still, according to the strength or weakness of the neighboring currents, from entirely local causes; if the heart's action be impeded, these irregularities will be more marked. The emptiness of the arteries after most kinds of death, partly due to the tonic contraction of these vessels, is rendered complete by the longer continuance of the capillary circulation. It is well known that the kidneys, the skin, and its glands, continue their secretions for a time after death, which would be inexplicable without the activity of the capillary circulation in these parts. In the early embryonic stages of the higher animals a circulation is seen before the formation of a central heart, and the first movement is toward, and not from, the centre. In the case of the fœtus without a heart, though in connection with a perfect twin, the circulation is kept up by the capillary power, which, though generally subordinate to the heart, is sufficient for the maintenance of the circulation without the aid of the central organ. In many cases of fatty degen-eration of the heart there is scarcely a trace of muscular tissue, and yet the circulation may be carried on for a long time without any serious disturbance; in such cases a capillary power must be active. Wherever there is any local excitement in which the processes of nutrition and secretion are interested, there will be an increase in the local amount of blood and a more rapid circulation in the capillaries. The

cessation of the capillary power, and the con-sequent obstruction of the circulation, even though the heart's action be unimpaired, may cause gangrene of the solid tissues; the prolonged influence of severe cold destroys the life of a part by its action on the capillaries; if the admission of air into the lungs be prevented, the pulmonary capillary circulation is arrested as soon as the blood becomes loaded with carbonic acid, and asphyxia is the result, unless a fresh supply of oxygen be speedily obtained. Without admitting any contractile power in the capillaries, or any mechanical aid to the circulation, the motion of the blood through them is certainly affected by any change in the chemico-vital relations between this fluid and the tissues; the heart sends the blood to the capillaries, but its passage through them is rapid or slow according to the activity or depression of the processes to which it should be subser-Prof. Draper, of New York, has established the following principle, which seems to explain the movement of the blood in the capillaries: "If 2 liquids communicate with one another in a capillary tube, or in a porous or parenchymatous structure, and have for that tube or structure different chemical affinities, movement will ensue; that liquid which has the most energetic affinity will move with the greatest velocity, and may even drive the other liquid before it." The arterial blood, rich in oxygen, with which it is eager to part, has a greater affinity for the tissues than has venous blood, loaded with carbon; therefore, on the above principle, the arterial blood of the systemic capillaries must drive before it the venous blood, and this in proportion to the perfect oxygenation of this fluid. In the lungs, on the contrary, the venous blood, rich in carbon, has the strongest affinity for the oxygen of the inspired air, and must drive before it in the pulmonary capillaries the arterial blood, already saturated with oxygen, and therefore having no affinity for the chemical elements of the air; and this in proportion to the perfection of the act of respiration. The chemico-vital actions of the systemic capillaries, though no more important to life, are much more complex than those of the capillaries of the lungs. In the latter it is a mere interchange between carbon and oxygen, while in the former every organ and tissue attracts to itself the materials necessary for its own nutrition, and causes a circulation in it in accordance with the above-mentioned physical principle. Though the capillary circulation is in a great measure independent of the direct agency of the nervous system, it is modified by the control exercised by the sympathetic nerves over the smaller arteries, and by the influence of the nervous system on the molecular changes in which the processes of nutrition and secretion consist. Though the blood will circulate after the division of the nerves of a part, any sudden and violent shock to the nervous centres will instantly arrest the capillary circulation. To use a homely illustration: if we com-

source, and the '
tem of sewers, which to sewers, which to sewers, which to sewers of the sewers of the sewers of the sewers house, on which the sewery-day life, without which

no comfort, cleanliness, health, or maps.

CAPIS, a province of the Spanish
pines, forming the N. portion of the home
of Panay; area, 1,680 sq. m.; pop. 210,130.
The soil is exceedingly fertile, and irrigual
by a great number of small mountain stress.
The product of rice is remarkably abundan,
yielding in many places as much as 200-fall,
while the land can be cropped twice a yea.
The inhabitants are of the Bissays race, as
noted for their docility of character, industr,
and fidelity to the government. The town of
Capis is a place of considerable native trais;
pop. 11,520.

CAPITAL (Lat. caput, head), in architecture, the head of a column or pilaster; in policist economy, accumulated and productive waith, whether in the form of money, buildings, maximum, improvements on land, or merchanism; in geography, the chief town of a state or in trict.

CAPITAL PUNISHMENT (from head, the source of life; hence capitalia, a thing affecting life, as crimen capitals, as crime; pana capitalia, capital punishment of death. capital offence by the Roman law impe only a loss of civil rights (amissie ci In the primitive state of social organization least in the earliest condition of which we have any record, retaliation was the common of punishing offences, and this was inflic the individual suffering the injury, or friends when the injury was loss of life. right of individual revenge has not only isted in the savage state, but has been re nized, and to some extent tolerated, even laws have been enacted for the restri crime; and in the laws of many nations, N tion, that is, the infliction of the sea upon the offender which he had committed, allowed.—Moses prescribed, as the me punishment for corporal injuries, an eye eye, a tooth for a tooth, and life for life, in xxi.; Levit. xxiv.; and it would seem, in latter case, that any person belonging a family of the person whose life had taken could pursue the murderer and him. "The avenger of blood" was a p having such right of private ve not a public officer appointed for the pose. The only means of escape fre mode of retribution was by fleeing to cities of refuge, and this was available only in cases of what we should call excende homicide.—The offences designated by the laws ifferent nations as punishable by death, are rative of the degree and peculiar form of ization.—The Hebrew polity being theocramany offences were punished capitally as g violations of the national faith. cration of the sabbath, blasphemy, idolatry, bcraft, cursing, offering children to Mobedience to parents, were punished by rder, adultery, incest, kidnapping a person and selling him for a slave, and c r offences, were also capital.—The a code of laws established by Draco med the punishment of death for a large of offences, greatly differing in degrees uinality, which the lawgiver extenuated ing that the smallest of the crimes speciuserved death, and there was no greater which he could inflict for more heinous th modified, and the Athenian criminal code ame very mild, subject, however, to an arbi-y power reserved to the assembly of the pleover the lives of all the citizens, and also idiscretion, which in many instances was left the areopagus, and even to the dicasts of people, of determining the punishment as Il as the guilt of the accused; as in the case , who, after trial by the court of are-and being convicted of the charge t him, was retried with reference to the It was generally in the power of athenian to escape from a trial, if he was willing to incur the risk, by going into untary exile. Arrest before trial was not practice in judicial proceedings, either il or criminal, in the Athenian courts. The ordinarily punished by death, or for death was prescribed by law, were , impiety (any open disrespect for relius rites or popular faith), treason, murder, npt to murder, and incendiarism. y nave been some other cases, but we and distinct record of them. The charge Alcibiades, which drove him into exile, · me mutilation of the busts of Hermes had been placed in the streets of Athens. vas accused of disbelief of the national . Although the judgment of the areopthe case of Socrates was unjust, yet orumary administration of justice by that rt was impartial and lenient.—The Roman compiled by the decemvirs were severe. lex talionis, or punishment like to the injury, admitted in cases of maining or other corviolence; but exemption could be obsu by a pecuniary compensation. Montesa mentions the singular provision by which penalty of death was denounced against the ers of libels and poets, as showing that the were framed for the support of a despot-government. The severity of the 12 tables zovernment. which the laws had been digested by the mvirs) was prevented from having full ation by the Valerian laws (which had been iously passed in the consulship of Vale-Poplicola), taking from the consuls the

power of inflicting the punishment of death, and giving an appeal from the consul to the people in all cases, and finally by the Porcian law, A. U. 454, forbidding any one to bind, scourge, or kill a Roman citizen. Oriminal jurisdiction in capital cases was, therefore, vested in the as-sembly of the people. Trials were always had in those cases before the comitia centuriata. The same usage prevailed at Rome which existed at Athens, viz.: of allowing a criminal accused of a capital crime to go into voluntary exile, and thus avoid the judgment of the court; but, in such cases, his property could be con-fiscated for non-appearance.—The Germans, in their primitive state, allowed private retaliation for injuries, and long after they had become established as nations within the territory of the Roman empire, and had become subject to codes of laws, this was still considered a natural right, and judicial authority interposed no check except to impose terms of compromise, when the injured party was willing to accept pecuniary compensation. The Salic law prescribed the rate of composition for different crimes, which was called wehrgeld, prohibition money (from wehren or bewahren). It was, however, assumed that the injured party had a right to choose whether to take the composition, or to get satisfaction by his own hand. Similar provisions are found in the laws of the Burgundians, Visigoths, and Ripuarian Franks. The Anglo-Saxons, like the other German nations, had a scale of fines for every species of crime; that for murder was called moighota or manhots. Retaliation was the common mode of redress, and private feuds prevailed to a great extent, which for a long period could not be controlled by law. Magistrates, however, were authorized to compel the injured party to accept the fine. If the wrong-doer (in case of murder) kept himself in his own house, it was permitted of his adversary to besiege him, and if he should surrender himself, he might be detained 80 days, but was then to be delivered up upon paying the prescribed compensation. This was enacted prescribed compensation. This was enacted by the laws of Alfred. By the Mercian laws, the price of a ceorl's head was 200 shillings, that of a thane 1,200. Beside paying the relations of the deceased, a murderer was also obliged to make compensation to the master if the deceased was a slave, or to the lord if the deceased was a vassal under his protection. It was com-mon for the poorer class to enrol themselves as the retainers of some superior, who was then bound to protect them. Associations were also formed among men of the same class for their mutual protection—the obligation assumed being to pursue the murderer of any one belonging to the association, and inflict punishment.—By the common law of England, no punishment can be adjudged, except what is prescribed by law. The penalty for all crimes must be fixed by statute, or otherwise courts can adjudge none. There was during a long period a serious interference with the regular administration of criminal justice, growing out

of the exemption claimed by the church in behalf of the clergy and their retainers. (See BENEFIT OF CLERGY.) It became usual, there-fore, to incorporate in statutes subsequently passed against crimes, a prohibition of benefit of clergy. At the time Blackstone wrote there were 196 different offences which, by various statutes, had been declared to be felonies without benefit of clergy. A great amelioration has taken place in the English criminal law by various statutes recently passed, particularly 7 and 8 Geo. IV., but the offences are still numerous for which capital punishment is inflicted.—By the laws of the United States, the crimes punishable by death are, treason, murder, rape, arson, piracy, robbing the mail (if it be with jeopardy to the life of the person in charge thereof), rescue of a person convicted of a capital crime when going to execution, burning a vessel of war, and corruptly casting away or destroying a vessel belonging to private owners. In the state of New York 8 crimes only are punishable by death, viz.: treason, murder, and arson. Imprisonment in the state prison for life, or a term of years, according to the degree of the offence, has been substituted in all the other cases, which in England are punished by death. In the other states similar legislation has prevailed. Transportation has been resorted to in England as a commutation for capital punishment in a large number of cases.

CAPITANATA, a province of Naples, on the E. slope of the Apennines, bounded N. and E. by the Adriatic; area, 3,178 sq. m.; pop. in 1856, 834,878. This region on the N. is covered with mountain ranges, branching from the Apennines, the principal of which is Mt. Gargano, occupying an extent of more than 800 sq. m. The interior and a portion of the S. part of the province is a low sandy plain, used only for pastures. The hills are sterile or covered with forests, but between them are rich valleys. The chief source of industrial employment is found in the rearing of sheep and

CAPITEIN, JAOQUES ÉLISÉE JEAN, a converted and learned African, died at St. George d'Elmina, after 1742. Found on the coast of Guinea by a Dutch captain, he was carried to the Hague, where he was baptized, and educated at the expense of a merchant of that city. He was instructed in the ancient languages, and in 1788 studied theology at the university of Leyden. In 1742 he was appointed missionary to Guinea, but no account is given of his services in that capacity. He wrote several works in Latin and Dutch.

CAPITO, WOLFGANG FABRICUS, originally named KOPSTEIN, a religious reformer, contemporary with Erasmus and Calvin, born at Haguenau, in Alsace, in 1478, died of the plague at Strasbourg in Dec. 1541. He received his education at Basel; was made secretary to Albert of Brandenburg, archbishop of Mentz; in 1528, became a convert to the reformed theology, and devoted himself to its

propagation; remother ministry; acteur and cipal conferences of the 1528, at Marburg in ... Augsburg in 1530 he was one pointed to present the confession to peror. He was much respected by his poraries as a man of sound learning; however, has been made the subject argument, and he has been accused of a toward Socinianism; this unce regard to his tenets created a

among both the Zwinglians and CAPITOL, CAPITOLUM, MONS now Campidoglio, a hill, a fortress, manufacture of ancies The citadel was begun in the time of Priscus, 614 B. C., but was not fu after the expulsion of the kings. of Jupiter Capitolinus was erected time. The hill was wholly come Jupiter, except a nook which was the god Terminus, who refused to spot when the other gods did so out ence to Jupiter. The temple was d fire, 88 B. C.; was rebuilt by Sylla, cated by Q. Catulus, 69 B. C.; it burnt A. D. 69, by the soldiers of V rebuilt by Vespasian. In the rei was burnt a 3d time, A. D. 80, bus I restored it with great magnificence. ple contained 8 shrines, consecrated to Jupiter, Juno, and Minerva. The Capitol was nearly a square, being and 185 feet broad. In the E. the people were feasted on tri The victorious generals v cession to offer thanks Sibylline books and the ma documents were deposited u ples were one by one raised hill. Among these, the Moneta, with the mint attacased Feretrius, of Mars, of Venus. of Isis and Serapis, were the 801 A bibliotheca or lib athenaum, and other pursue l in the Capitol. At the S. peian rock, down which thrown headlong. The pri the Campidoglio, or mode 8 palaces, forming 8 sides und m of Michel Angelo. CAPITOLINE GAMES (Indi

CAPITOLINE GAMES (sudiannual games instituted on the Camillus, 887 B. C., in honor of linus, and in commemoration of of the Capitol from the Gammamusements at these sardiani for sale by are by some supposed we are the object of the supposed we are supposed we are the supposed we are supposed we su

, from the quinquennial celebration ... Capitolini.

OLINUS, JULIUS, a Roman historian, I toward the end of the 8d century, the lives of 9 emperors. He is one ners of the *Historia Augusta*, in the f whom his works are to be found. ULATION, in war, the act of surren-

ULATION, in war, the act of surrenthe enemy upon stipulated terms. The rated capitulation of modern times is lm, which was signed Oct. 17, 1805, ling to which 23,800 Austrian troops ted in and around Ulm, under Gen. rendered, with 60 pieces of artillery

ls, to the French forces under they.—In German constitutional contract which the German electronal tered into with the German emperor, was raised to the imperial dignity. of these capitulations was exacted ries V. at the commencement of the arry, by the German princes who

he king of Spain would not respect nons put upon him by the constitution man empire. They accordingly drew itulation, reciting the privileges they to the observance of which Charles elled to swear. The last of these

elled to swear. The last of these ulations was sworn to by the em-

ысь II., July 5, 1792.

ULARIES, certain laws enacted under ish kings, and so named from the circle of their being divided into capitula, a. They were issued by Childebert, Carloman, and Pepin, but still more y by Charlemagne, whose object aphave been to harmonize, explain, or e existing feudal codes, and effect to ee a uniformity of law in his dominase enactments were both civil and cal; according to Savigny, the latter ree throughout the 8 kingdoms subtrace of Charlemagne, but the former lonly within the state in which they. The capitularies were promulgated blic assemblies, composed in Charle-

of the sovereign and chief clorical gaitaries, though in earlier times all able of bearing arms seem to have; in them. The laws were inscribed royal archives in the Latin tongue,

d to the people in the vernacular.

uion was intrusted to the bishops,

and the officers called missi regii,
sent under the French kings of the
second race to administer justice in
loes. The earliest enactment coming
name of capitulary was made by ChilD. 554, and the latest by Charles the
ho died in 929. The first collection
ularies was begun in 827 by An
uot of Fontenelle, and continued

ct the deacon, of Mentz. It was ap
various kings and councils, and had

of law. Additions have since been

his collection, and the first complete

edition was published by Vitus Amerpachius at Ingolstadt in 1545, under the title of Pracipus Constitutiones Caroli Magni de Rebus ecclesiasticis et civilibus. The best edition is that of Baluze, entitled: Capitularia Regum Francorum, &c., Paris, 1677, 2 tom. fol.; reprinted at Venice in 1771. and at Paris in 1780.

at Venice in 1771, and at Paris in 1780.

CAPMANY Y MONTPALAU, Antonio Dr., a Spanish writer, born in Barcelona, Nov. 24, 1742, died in Cadiz, Nov. 14, 1818. He served in the wars with Portugal in 1762, left the army in 1770, and joined Olavide in his scheme for colonizing and cultivating the Sierra Morena. This enterprise terminated disastrously, and Capmany removed to Madrid, where he was chosen secretary of the royal historical academy of Spain in 1790, and filled several offices in the gift of the government. He travelled in Italy, Germany, France, and England. When the French entered Madrid in 1808, he fled to Seville, where he arrived destitute and in rags. He was chosen a member of the cortes of Cadiz, in which capacity he made himself conspicuous by his patriotism and active opposition to the new rulers. His works, which enjoy a high reputation in Spain, are numerous; among them are Memorias historicas sobre la Marina, Commercio y Artes de la antiqua Ciudad de Barcelona, in 8 vols. 4to; Questiones criticas sobre varios puntos de historia, economica, peli-tica y militar; Testro historico-critico de la Elocuencia Española; and Dictionario Frances-Español.

OAPO D'ISTRIA, a city, pop. 6,500, and county, area 168 sq. m., pop. 48,600, in the margraviate of Istria, one of the crownlands or provinces of the Austrian empire. The city is situated upon a rocky island, 9 m. S. of Trieste, connected with the mainland by a solid stone bridge 2,800 feet long. It has crumbled walls and fortifications, a large number of old dilapidated buildings and narrow and crooked streets. The city is said to have been founded by the Colchians, under the name of Ægida; in the 6th century A. D., many wealthy families sought a refuge there from the Longobards and Avari. Having been conquered by the emperor Justinian I., it was named by him Justinopolis, in honor of his uncle, Justin I. Later it became an independent commonwealth; was annexed to Venice in 982; conquered by the Genoese in 1880; was independent again in 1478, until the whole margraviate became part of the Austrian dominions. The city has a good harbor, a cathedral and 80 churches, beside 2 convents, a college, and an academy, extensive

salt works, an aqueduct, &c.

OAPO D'ISTRIA, or CAPODISTRIAS, a noble family which has flourished on the Ionian islands from the 14th century, and which is intimately connected with the early history of the modern Greek kingdom. I. John Anthony, count of Capo d'Istria, president of Greece from 1827 to 1831, born in Corfu in 1776, assassinated at Nauplia, Oct. 9, 1881. He received a classical education at Padua and Venice, in-

tending to become a physician, but the political disturbances which his country experienced under Napoleon led him to a political career. When, after the expulsion of the French by the united Russian and Turkish forces, the Ionian islands became a vassal state of Turkey, under British and Russian protection, Capo d'Istria filled several public stations, and from 1802 to 1807 united the secretaryships of the interior, foreign affairs, the navy and commerce, in his own hands. The islands having been returned to France by the treaty of Tilsit, Capo d'Istria accepted a place in the Russian ministry of foreign affairs, where he soon gained distinction. a member of the Russian embassy at Vienna in 1811; as a diplomatic commissioner at the headquarters of the army of the Danube in 1812; as a diplomatic agent of Russia in Switzerland in 1818, where he was prominently instrumental in imposing upon the people the federal consti-tution, which endured till 1848; lastly, as a member of the congress of Vienna in 1815, and the principal author of the resolutions of Carlsbad in 1819, Capo d'Istria was always found among the firm supporters of absolutism, though at the same time denouncing the despotism of Turkey, and secretly conspiring for the independence, or rather Russification of Greece. In 1816 he was appointed secretary of foreign affairs in Russia. In 1819 he visited his native country in order to sound the popular feeling. The results of his visit were stated by him in a small pamphlet, in which he endeavored to demonstrate that it was the province of absolute governments to educate the people for the enjoyment of freedom. This doctrine was not at all palatable to the leaders of the Greek insurrection, and the movement begun by them in 1821 was therefore disavowed by Russia so long as it seemed impossible to turn it to account for the secret objects of Russian policy. He lost his office in 1822, and went to Switzerland, where he succeeded in regaining the confidence of the Greek leaders. With the consent of the British ministry and the Russian government, both desirous to place a devotee of monarchical order at the head of Greece, he was elected president or regent of Greece by the national convention assembled at Damala (1827). Before assuming the government he went to St. Petersburg, where, it is generally believed, he received secret instructions from the Russian government. He landed at Nauplia, Jan. 28, 1828. For a very short time he commanded the confidence of the people. Instead of fulfilling his pledge to form a great national army and repulse by force the Turkish army under Ibrahim Pasha, he left the defence of the country to foreign diplomacy, crushed the liberty of the press, drove the patriots and heroes of the revolution from public offices, which were filled by him with his own creatures, promulgated a code of laws of the utmost severity, prevented the election of Prince Leopold of Saxe Coburg to the throne of Greece, and seemed to have no other object in view except to prepare Greece

for Russian became the some or a vi his measures as e of the French re ary movements broke a assistance enabled him to suppress he was stabled by the brothers C. and George Mauromichalis, as he ing the church of St. Spiridion. II. brother of the preceding, born in 1770 Corfu, in 1857. He was appointed by ther military and political chief of courses. Greece in 1829. Two of the ablest less Gen. Church and Demetrius Ypeclanti, lutely refused to recognize his authority. After the assassination of his brother he assur government as chairman of the board of rega cy, and was elected president by the national convention assembled at Argos in Dec. 1811. The Russian government assured him of its sympathies, and he was recognized by the Ladon conference of the allied powers. Ake weeks later the opposition became so powers! that the great powers retracted their form action and compelled him to resign. He less Greece for St. Petersburg, April 13, 1821, taking the corpse of his brother with him.

CAPONNIERE, in fortification, a work exstructed on the sole of the ditch of the fortres, in order to flank that ditch by its fire. Their ventor of this kind of work is unknown; it is said to have been proposed in Italy as early as 1496, and it is certain that the Italian ea neer, Pallavicini, constructed similar works a 1506. The first systematic application of capon nières for the defence of a ditch occurs is the work of Albert Dürer, the German painter, as fortification, printed in 1527. He applies them in his circular and quadrangular fortifications in the same manner as they are now actually on structed; and, indeed, it is hard to believe that Montalembert composed his polygonal system entirely without knowledge of Darer's wark The idea, however, was neglected for more the 21 centuries, during which the bestionery streem was the only one recognized. In 1777 the French cavalry general, the Marquis de Masta lembert, published the 2d volume of his work a the science of fortification, developing the p lygonal system, in which the whole flanking fences of the ditch consist of powerfal mated batteries constructed on its sole, in the middle of each front or side of the polygon.

CAPPADOCIA, an ancient province of Aisminor, between lat. 37° 16′ and 39° 26′ N. and long. 32° 50′ 18″ and 39° E. It was conquered by the Persians under Cyrus. After the end Alexander the Great, it was ruled by independent kings until A. D. 17, when it was reduced to a Roman province by Tiberius. Christianly was early introduced into Cappadocia, as we learn by the 1st general epistle of St. Peter. Under the Persians or Macadoniana, the province was divided into 2 satrapies, Cappadocia and Pontum and Cappadocia ad Tamuum, called afterward by the Romans Cappadocia Magna, also

a simply. The chief town of the latzaca, afterward Cæsarea, and the as celebrated for its fine pastures and ir breed of horses, mules, and sheep. ared the fate of the eastern

possession it still remains, forming eral modern eyalets of Asiatic Turkey. , NEWCOME, an English dissenting orn in Leeds, Feb. 21, 1782, died at . 24, 1800. He studied with Dr. Aiworth, and Dr. Doddridge at North-nd at the university of Glasgow. h Dr. Doddridge, he became satisfied lences of revealed religion, of which rmerly entertained doubts. At the of Glasgow he made the acquaintlam Smith, Moore, Cullen, and Black. he pastoral charge of the congrega-Saviour's Gate, York, for 40 years. e author of several theological works. LL, the name of a French Protestant ed for the many learned theologians which it produced from the 15th to entury.-One of the most prominent vas Louis Cappell, born near Sedan, 585, died at Saumur, June 18, 1658. l a high reputation as professor of

oriental languages at the university r, and as an exegetical and critical le is principally known, however, as t with the Buxtorfs, in the Masoretic roversy. The correctness of his views bject has been settled by the general f Hebrew scholars that the present pointing cannot be carried back be1th century.

JA, the Capraria and Ægilon of the small volcanic island of the Meditertween the N. point of Corsica and of Tuscany. It is about 15 m. in cire; its surface is generally mountains principal product is wine. Wild abound in the mountains. It has its own name, with a safe harbor, is island was taken from Corsica by se, and it is now a part of the prov-

Pop. about 2,500. nos. .RA, GIOVANNI BATTISTA, an Italian d statesman, born in Bologna, May lied in Paris, June 21, 1810. He was rs old when appointed by Pope Ben-. vice-legate at Ravenna. He was papal nuncio successively at Cologne, ind Vienna and in 1792 was made In 1800 he was created bishop of ing been appointed, in 1801, legate the French republic, he succeeded ig the terms of the concordat, which ed upon Sept. 18, 1801; and in April, document was promulgated at Paris, oman Catholic form of worship was d at the church of Notre Dame with idor. In May, 1805, he crowned Na-filan as king of Italy. Having returnis legate of the pope, he died there.

CAPRI (anc. Caprece), a small and rocky Neapolitan island, in the Mediterranean, S. of the entrance to the bay of Naples, noted in history as the place where Augustus resided dur-ing his illness, and where Tiberius spent the last 10 years of his life. It is still celebrated for the beauty of its climate, which makes it a favorite resort for invalids, especially for those suffering from chronic bronchitis. The island is about 9 miles in circumference, and surrounded by steep and inaccessible cliffs. Total pop. about 4,000, comprising 2 small towns, Anacapri and the port of Capri. The latter is the see of a bishop, and contains a cathedral and some other churches; pop. about 2,600. Between the 2 mountains of limestone (the highest of which is Monte Solaro, rising nearly 1,800 feet above the sea), of which the island consists, lies a fertile valley, which yields grain, olives, grapes, and other fruits. The inhabitants are engaged in the production of the fa-mous red and white Capri wines and of oil, in fishing and in the pursuits of the sea, and in catching quails, vast numbers of which are caught every spring and autumn on their passage from and to Africa. Remains of several of the 12 villas erected by Tiberius in various parts of the island are still to be seen, and other relics of antiquity have been excavated here. The French under Gen. Lamarque surprised this island, then in the occupation of the English under Sir Hudson Lowe (Oct. 1808), and compelled them to

capitulate within 15 days after the invasion.

OAPRICCIO, in music, literally a whim or caprice, a term applied to that species of composition in which the composer arbitrarily deviates from the customary forms and gives free play to his fance.

play to his fancy.

CAPRICORN, a sign of the zodiac, which the sun enters at the winter solstice in December; also a constellation formerly in this sign (see AQUARIUS). The tropic of Capricorn is the southern boundary of the torrid zone, at which the sun is vertical at noon only once a year, the day he enters Capricorn, usually Dec. 20 or 21.

CAPRIOLE, a peculiar leap made by a horse without advancing, in which, when at its height, he throws out his hind legs with a jerk, keeping them parallel and near together, and showing the shoes. It differs in the last particular from the croupade, and from the balotade in the jerking out of the legs. It is the most difficult of all the high airs in the manege.

CAPSA, an ancient city in northern Africa, in an oasis of the desert. Its site is occupied by the modern Gafsa, 74 miles W. of Cabes. Tradition ascribed its foundation to the Libyan Hercules. It was destroyed by Marius in the war with Jugurtha, but afterward rebuilt.

OAPSIOUM, a genus of plants, from 4 species of which are obtained as many varieties of the so-called cayenne pepper. The name capsicum is also applied to the product itself. The genus is of the solonaces or nightshade family, and

has no relation with the family of piperacea, which furnishes the real peppers. The 4 species which furnishes the real peppers. The 4 species referred to are C. annuum, C. frutescens, C. cerasiforms, and C. grossum. The first 2 only are of importance. The first is an annual herbaceous plant, remarkable for its hardy nature. A native of tropical countries, in which it thrives luxuriantly in dry and poor soils, it is also cultivated in almost all parts of the world. It grows 2 or 3 feet high, and bears a pod or seedvessel, called also its berry, of ovate or conical form, recurved at the end, green when immature, but bright scarlet or orange when it ripens in October. It is used in the green state for pickling, and in medicine when ripe and dried, and is round to powder to make cayenne pepper. In England the dried berries kept in the shops are called chillies. This variety is imported from the West Indies, and is supplied from our own gardens. Its product is hot and pungent, but without aroma. C. frutescens furnishes the socalled bird or Guinea pepper, a hotter and more pungent and better flavored article, and to some extent aromatic. The plant is a shrub, best known in the East Indies. The berries are scarcely an inch long, and only a line or two broad. They contain each about a dozen reniform seeds.—The active principle of capsicum, called capsicine, is a volatile liquid, thick when cold, but very fluid before it disappears by heat in fumes. The vapor is so pungent, that what is produced from $\frac{1}{4}$ a grain, when dispersed in a large room, will cause all present to cough and sneeze. It is obtained by digesting the alcoholic extract in other and evaporating.—Cayenne is largely employed as a condiment, acting as a stimulant and aiding digestion. For these properties it is administered as a medicine; and it is also highly useful as a gargle in malignant scarlatina. In the West Indies, for violent cases of this disease, the preparation for both uses is to infuse for an hour in a pint of boiling vinegar and water 2 tablespoonfuls of the powdered pepper with a teaspoonful of common salt. When cold, the liquid is strained, and given in the dose of a tablespoonful every half hour. Capsicum is said to relieve the nausea of sea-sickness. It is also employed externally as a rubefacient and stimulant, either in the form of a cataplasm, lotion, or tincture.—The commercial cayenne is subject to gross adulterations. Red lead and vermilion, or sulphuret of mercury, are the worst materials introduced, and cases of poisoning are reported from this cause, both the lead and mercury having the property of aggregating in the system when taken in small quantities. They are added to keep up the color, which gradually fades with the age of the capsicum, also to increase the weight, and to disguise the other ingredients. Ochres are also employed for similar purposes; salt also, to improve the color and add to the weight. Ground rice and turmeric are more harmless additions

CAPSTAN, a machine used on board vessels for weighing anchor, and for other operations

requiring a heavy pull. It axle with holes around bars, called handspikes, are is passed 2 or 8 times are men take hold of the loose was so give as a sion and keep the capetan clear of it. Of take hold of the handspikes and walk are with them. The power of a man thus age is about equal to the traction of 25 lbs., has over a puller of the relation of 25 lbs., has over a pulley, at a velocity of 3 feet per see The capstan is rarely used, and when the h spikes are removed, it occupies on deck but a few square feet. A greater number of a may work at a capstan than at a horizontal are and they can act much more rapidly, as they have simply to walk around pushing the handspikes forward; whereas with a horizontal a ratus, as often as it is turned a quarter of acr cle, they have to take out the bars on which ther act and insert them in new holes before the can act again. Since the year 1820, numerous patents have been issued for improved capatan. Most of them consist in making the head s from the axle, and adapting gearing, which my be connected or disconnected at will, to vary the power of the machine as occasions requi Another improvement, consequent upon the adoption of chain cables, consists in making the lower portion of the capstan the exact con terpart of the chain, so that each link as a comes up enters the corresponding recess, and the chain is thus held more firmly with helf a ton than it would be with 8 tons around a smooth The capstan is an instrument of the surface. past, and has already been superseded by the steam winch on board of a large number of steamships, and it seems probable that below long each sailing vessel will have to be provided with a small steam engine for doing heavy work of the sort.

CAPSULE, a name given by botanists to an kind of dry seedvessel containing many of and seeds, such as poppy heads, &c.; the wall is derived from the Latin capsula, a small box. The pods of peas and beans, &c., swe called capsules, as well as the seed-containing vessels or fruit of many other families of A capsule usually opens by valves; and l different varieties have been named bivalve trivalve, quadrivalve, and multivalve. The p of a capsule are: 1, the valves, ribs, or div which form the outward shell, and shield i fruit externally; 2, the partition walls, which form different cells internally; 2, the axis columella, which unites the seeds with the int nal parts of the capsule; 4, the cells occu the seeds; 5, the proper receptacle of each se and 6, the seeds contained within the c According to the number of internal par in a capsule, they have been named unit lar, bilocular, trilocular, multilocular. Sular seedvessels are generally dry and when ripe; and in this respect they are the pulpy fruit of apples, plums, &c., or the juicy oranges and lemons. are merely seedvessels, and the m

r lied to all dry, hard seedvessels,

LES, GELATINE, little bags made of of gelatine, designed for holding doses us medicines, so that all being swalther, their taste may not be perfferent methods are given of pre-. One is to take a cylinder of hard rounded off at one end, and 1 of an inch and dip the end first into a saturated mution of soap in alcohol to the depth au inch. ch. When the soap has hardened wood, it is to be dipped into a hot solution of gelatine, and this according to the thickness of deposit ne desired. This is to be slipped off has hardened; and the process is to be ested to procure another bag for a cover to first one. When one is filled with the medis, the other is applied upon it, and the 2 are htly secured together by going over the line junction with a camel's hair brush moistened th hot water. For other methods see Jourl de pharmacie et de chimie, vol. xvii. p. 204, l the American "Journal of Pharmacy," vol. p. 20. JAPTAIN, the rank designating a command-

of a company in infantry, or of a squadron troop in cavalry, or the chief officer of of war. In most continental armies pe captains are considered subalterns; pritish army they form an intermediate petween the field officer and the subaltern, **stter term comprising those commissioned only whose rank does not imply a disand constant command. In the U.S. army captain is responsible for the arms, ammu-, clothing, &c., of the company under his and. The duties of a captain in the navy very comprehensive, and his post is one of esponsibility. In the British service he with a lieut.-colonel in the army, until the ration of 8 years from the date of his comn, when he takes rank with a full colonel.

n, when he takes rank with a full colonel.

old French service he was forbidden to a ship under pain of death, and was to it up rather than let it fall into the hands a enemy. The title of captain is also aple to masters of merchant or passenger vesand to various petty officers on ships of line, as captain of the forecastle, of the of the main and fore tops, &c. The is of Italian origin, meaning a man is at the head of something, and in this it is often used as synonymous with a genin-chief, especially as regards his qualities ommand.

APUA, or Capoa, a fortified town, in the dom of Naples, in the province of Terra di ro, lying in a plain on the left bank of the urno, 15 m. N. W. of Naples, on the high to Rome, and 10 m. from the Mediterra; pop. about 10,000. The present Capua not stand on the site of the Capua of anti-

ous. The cathedral and the church dell'Annuasiata are splendid edifices, and contain many antique base-reliefs built in with their walls. In 1808 the town suffered considerably from an earthquake.—The ancient Capua lay at a distance of 2 m. from the modern city. Its origin and early history are obscure. In 848 B. C., when threatened by the Samnites, the citizens called in the aid of the Romans, and were shortly afterward compelled to acknowledge the supremacy of Rome. It successfully resisted Pyrrhus, king of Epirus, but after the battle of Cannæ (216 B. C.), the popular party deserted Rome and opened the gates to the Carthaginian general. The winter spent by the Carthaginian general. ginian troops in Capua demoralized them greatly, and was considered by the Romans to be the main cause of Hannibal's ultimate defeat. For the extravagance and effeminacy of its inhabitants, Capua bore a reputation similar to Sybaris and Sardis. It was famous for its manufactory of perfumes, with which the unquentarii or perfumers of Capus supplied the whole empire of the West. It was early cele-brated for its gladiatorial exhibitions, and from Lentulus's school of gladiators in this city Spartacus, the rebel leader in the servile war, first broke loose with 70 companions. In 211 the Romans again entered panions. In 211 the Romans again entered Capua. All the senators were put to death, 300 of the nobles were thrown into dungeons, and the middle class of citizens were removed to a distance from their native place. local magistracies were abolished, and a Roman prefect was appointed to rule over the city. During the social war the Capuans manifested the most unshaken fidelity to Rome, and were, as a reward therefor, reendowed with many of their ancient municipal privileges. Julius Cassar procured the passage of a law during his consulship, 59 B. C., in accordance with which 20,000 Roman citizens were settled in the environs of Capua. This circumstance conferred a new era of prosperity upon the city.-The barbarian invasions were fatal to old Capus. Genseric and his Vandals devastated it in A. D. 456. Narses restored it, but it sank again after the conquests of the Longobards in southern Italy. It was finally destroyed by the Saracens, A. D. 840, who reduced it to ashes. A few years afterward, Bishop Landulfus induced the inhabitants to return and establish a new city on the site of the ancient Casilinum. This was the origin of the modern Capus. The ruins of the amphitheatre, built of tiles and faced with white marble, are an object of attraction to antiquaries. The remains of old Capus have been described by Rinaldo in his Memorie istoriche della citta di Capua, Naples, 1758, and in Rucca's Vetere Capua, Naples, 1828. The site of old Capua is now occupied by the large

village of Santa Maria di Capua, or Santa Maria Maggiore. CAPUCHIN, a religious congregation belonging to the Franciscan order, instituted by Mattee Baschi. Mattee was desirous of

practising greater poverty than was required by the strict rule of the order of St. Francis. Having observed that a painting of St. Francis represented him with the hood of the habit of a different shape from that usually worn by the order, he made one like it and wore it, about the year 1525. This being condemned by his superiors as a novelty, he had recourse to Pope Clement VII., who gave him permission to wear the hood, and also permitted those who wished to imitate him to form a congregation. In 1528, Clement VII. gave them further permission to wear the habit and also a beard. They were to reside in solitary places, and live as hermits. When they commenced wearing their peculiar dress through the streets of Camerino, the children commenced calling after them Capuccini, whence they were styled Capuchins. The rules of the order are very strict: they are obliged to recite the canonical hours without singing, and the matins are to be said at midnight; an hour is to be spent every morning and evening in mental prayer and in silence; their food is of the simplest kind, one kind of meat only being allowed, and on fast days they are only allowed a kind of cheese called cotta. They are not allowed to wear any covering for their head, and their habit is of the coarsest description; nor are any ornaments of gold or silver allowed in their churches. In 1624, Urban VIII. caused a new church to be built for them at Rome, near the Barberini palace, he being a member of that family, and in 1631 the Capuchins took possession of it. The church contains the famous painting of St. Michael the archangel, by Guido. This congregation has supplied many missionaries to Asia, Africa, and America, and a great number of cardinals and bishops. It has produced also many illustrious writers.

CAPUDAN PASHA, is the title of the chief commander, or great admiral, of the Turkish navy, who is at the same time supervisor of the naval stores and establishments, and governor of the Turkish islands of the archipelago, and of some of the coasts of the empire. He is pasha of 3 tails, makes all the appointments in the navy, is a member of the divan. Every summer he makes an excursion with the fleet to the archipelago to exercise the ships, and levy the taxes. The title is probably a Turkish imitation of the Italian Capitano, like many other terms now usual in the Levant, and derived from the times of Genoese and Venetian influence in those regions.

fluence in those regions.

CAPUT MORTUUM, a Latin name given by the old chemists to the fixed residue of dissillation and sublimation, symbolized in alchemical writings by a death's head and cross bones.

CARABINE, or CARBINE, a short barrelled musket adapted to the use of cavalry. In order to admit of its being easily loaded on horseback, the barrel ought not to be more than 2 feet 6 inches long, unless it be breech-loading; and to be easily managed with one hand only, its weight must be less than that of an infantry musket,

The bore, too, is that of the it have either ... will be first case, its e to that of the common will exceed it in precision our In the British service, the ca bored carabines; in the Russian cavan horse all have rifled carabines, whi cuirassiers 1 have rifled, and the smooth barrels to their carabines. Im too, in some services (French and B cially), carry carabines; those of the on the principle of the new Enfield abine-firing was at one time the pr of cavalry fighting, but now it pused on outpost duty, and with cavan mishing. In French military works, the apression carabine always means an infact; rifle, while for a cavalry carabine the wat mousqueton is adopted. Several improvement in breech-loading carabines have recently lon made in the United States, and submitted for trial to an ordnance board at West Point (July, 1858).

CARABOBO, a province of Venezaia. bounded by the Caribbean sea, and by the pre-inces of Caracas, Varinas, Truxillo, and Cav: area 8,148 sq. m., pop. about 100,000. In capital city is Valencia, but the province takes in name from a village 20 miles B. W. of the capital, where a battle was fought June 34, 1811. Which secured the independence of Colombia. It is intersected by the head-streams of the Evorugueza, and produces coffee, cocoa, what tobacco, and sugar.

CARACALLA, MARCUS AURELIUS ASSES-NUS, a Roman emperor, born at Lyons A. D. 186. died in 217. He was originally called Besistan but received the nickname of Caracalla, from a favorite Gallic tunic which he introduced into Rome. On the death of his father Several at York in 211, he ascended the throse with his brother Geta, but soon caused the mude: of the latter, and, according to Dion, of the Romans who were his partisans, among when was the jurist Papinian. He multiplied extertions in order to purchase the favor of the sodiery, gave the right of Roman citizenting: all free men of the empire in order to imp taxes upon their estates, and admitted Reprint to the senate. He made unimportant expedit against the Gauls, Goths, and Parthie at Alexandria took revenge for some en by a general massacre of the inhabitants was assassinated near Edessa on his way to Carries at the instigation of Macrines, the protorian prefect.

CARACAS, a province of the republic of verezuela, bounded N. by the Caribbean sea. E. by Barcelona, W. by Carabobo, Cogedes, and Brinas, and S. by Apure and Guiana; area 45.264 sq. m., pop. about 800,000. The E. prisi in general mountainous, but toward the 8 the surface expands into vest and fortile phina. The province is divided into 16 cantes, of

which the canton of Caracas is the richest ment most populous.—The capital of the above-lassibed province and of the republic of Venezuela, Caracas, is situated 11 m. S. S. E. of La Guayra, in lat. 10° 80′ N., long. 66° 84′ W. Its site is the declivity of a mountain nearly 8,000 feet above the sea. The streets are wide and well built, intersect each other at right angles, and are generally supplied with funtains. The houses are usually faced with stacco, are sometimes richly decorated, and have often terraced roofs. There are several specious squares, the largest of which is the Plaza Mayor, or Great square, where the fish, fruit, and vegetable market is held. The principal public edifices are the churches, the conweats, and the university, which was founded in 1778. The cathedral is a very large structure, and the church of Alta Gracia a very beautiful one. The Catucho feeds the fountains which supply the city with water. The exports consist principally of cacao, for which Caracas is celebrated, of cotton, indigo, coffee, tobacco, hides, and live cattle. The trade is curied on through the neighboring port of La Guayra, and the shipping of 1854-'55 comprised 45,450 tons, including import and export. For further commercial and for historical information, see VENEZUELA.—Caracas is the seat of the president, and of the chief judicial and ecclesiastical authorities of Venezuela. schools, supported by the city at an annual expense of \$40,000, are well attended. The celebrated Bolivar was a native of Caracas, and in 1842 his remains were interred here. The town was visited by an earthquake in 1812, by which about 12,000 persons are said to have perished. The earthquake of 1826 also contributed to diminish the population and to injure the town. It has, however, been rebuilt since, and the population is believed to have risen again to about 50,000, and by some authorities even to 68,000.

CARACCIOLI. I. Domenico, marquis, an Italian statesman, born in Naples in 1715, died In 1789. He was ambassador to the court of France in 1770, and became acquainted with D'Alembert, Diderot, Condorcet, and other encyclopædists, who entertained for him a high regard. In 1781 he was appointed viceroy in Sicily, where he distinguished himself principally by the abolition of torture. II. Fran-Casco, prince, a Neapolitan admiral, born at Naples in 1748, died in 1799. He repeatedly commanded the Neapolitan fleet, when acting in concert with the English against the French and the beautiful and the Research and the Rese French, and thus became acquainted with Nelson. In 1798 he served under Nelson; and in 1799, with the consent of the king, he repaired to Naples, in order to prevent the confiscation of his property, and was appointed commander-in-chief of the navy of the "Parthenopean Republic." Although he reluctantly accepted this place, he successfully opposed, with a few ships, the landing planned by the combined English and Sicilian fleets. Naples

having been retaken, he was arrested, and in violation of the capitulation by which the officers of the late republican government were allowed to leave the country unmolested, he was brought a prisoner on board Nelson's ship, the Thunderer, arraigned before a Sicilian courtmartial, and condemned to be hung. A request was presented in his name to the English admiral for a less ignominious mode of death; but Nelson, through the influence of Lady Hamilton, declined acceding to it, and, a few moments later, his old companion in arms was suspended from the yard arm of a Neapolitan

ČARACOLE, in horsemanship, is an oblique tread, traced out in a semi-round, changing from one hand to the other, without a regular ground. When horses advance to charge in battle, they sometimes ride up in caracoles to perplex the enemy, and make them doubtful whether they are about to take them in the front or in the flank. Caracole is a Spanish word, and in that language signifies the motion that a squadron of horse make when upon an engagement. The first rank have no sooner fired their pistols than they divide and open into two half ranks, the one wheeling to the right and the other to the left, along the wings of the body, to the rear. Every rank observes the same order of firing; and turning or wheeling from the front to the rear is called a caracole. This is the same movement which is performed by infantry, in street firing on the advance, without making any halt, in column, the men who wheel off loading as they counter-march to the rear. To caracole is to go round in the form of a half circle.

OARACTACUS, king of the Silures, an ancient British people who inhabited Wales, died A. D. 54. He resisted the Romans for 9 years. Ostorius, sent by the emperor Claudius, at length defeated him and took his wife and children prisoners. He himself took refuge with Cartismandua, queen of the Brigantes (York), who delivered him for a reward to the emperor. His proud bearing and noble and pathetic speech so won the admiration of Agrippina and Claudius that they pardoned him and

discharged him with presents.

CARAFA, MICHELE, an Italian musical composer, born in Naples, Nov. 17, 1787. studied music under the best masters of his day, but served in the army until 1814, when he retired with the appointment of major, and devoted himself to music as a profession. In 1814 first appeared the opera Il Vascello d'Occidente, soon followed by La Geloria Corretta, Gabriele di Vergi, Ifigenia in Tauride, Masaniello, &c., &c. The Solitaire and Masaniello niello are considered his best. His compositions are noted for sweetness, simplicity, and naturalness of melody, and correctness and elegance of instrumentation.

CARAGA, a province of the Spanish Philippines, forming the N. E. division of the island of Mindanso. It is bounded S. by the territories

of the independent sultan of Mindana, and E. and W. by the sea; area 8,400 sq. m., pop. 42,000. This province is one of the poorest under the Spanish dominion; it has generally a sterile soil, and abounds in waste marsh lands. Its forests are, however, reputed to be of great value, consisting chiefly of the finest ship timber trees, especially the teak, which is not found elsewhere in the Philippine islands. Great numbers of wild buffaloes, hogs, deer, civet cats, and other musk-producing animals are found in the forests. Considerable quantities of gold are found in alluvial deposits on the Ba-toan river and its tributaries. The bulk of the population is of the Bisaya race; but there are several wild tribes: one called Mandaya, which have very fair complexions, and Spanish writers say that they are a mixed race descended from Malay women and some shipwrecked Dutch-men; another tribe called Tagabaloyo are said by the same authorities to be descended from shipwrecked Japanese, and native Mindanese women. There is a negrito race can...

The inhabitants subsist chiefly upon sago, fish, and roots of spontaneous growth. The Spanish are rapidly effecting a beneficent change in the condition of the semi-civilized and savage population of this province. Its only export at present is a small quantity of gold dust.

CARAITES, or KARAITES, a sect among the Jews, whose origin is very uncertain. Jews say that they are the same as the Sadducoes, because they do not receive the traditions of the rabbins; others that they are reformed Sadducees, because they accept the doctrines of immortality of the soul, resurrection of the body, paradise and hell, which the Sadducees rejected. Others consider the Caraites to be the same as the doctors of the law mentioned in the New Testament. The Caraites themselves date their origin from the captivity of the 10 tribes by Shalmanezer. Wolf attributes their origin to a massacre among the Jewish doctors under Alexander Jannaus, about 100 B. C. Steinschneider, in his "History of Jewish Literature," places the origin of Caraism as a literary development in Judaism from A. D. 750 to A. I). 900, and says that it sustained a very important part in the reformation of Jewish literature. He, however, admits a Caraitic tendency in Judaism of a much earlier date. The present principal seat of the Caraites is in the Crimea and in Austrian Galicia. always worship toward the S., because they say that Shalmanezer carried the 10 tribes from which they date their origin to the N., so that they must turn to the S. to face Jerusalem. The Caraites deny the oral law to have come from Moses, reject the cabalistic and chimerical interpretations of the rabbins, and observe the feasts with greater rigor than other Jews.

CARAMAN, or KABAMAN (anc. Laranda), a town of Asiatic Turkey, in the eyalet of Caramania, at the foot of Mt. Taurus, lat. 37° 12' N., long. 33° 5' E.; pop. about 12,000. It con-

tains the with rior by rows or co 4 temples of modern uses. nian church, and a Turl ha by a wall which Coarse blue cotton cuo are manufactured.-Litue PROME OF cient Laranda, on or near me ruins the present town was founded in century by Karaman Oglu, a Turi whom it was named. It 7 Turkish kingdom until the = mania by Bajazet II. in 1. government was removed to Aonieh (actual and the glory of Caraman began to fike Though residing at Konieh, the pasha take is title from this place. The name of Laranda or Larenda is still used by the Christian inhibitants of the country and in the firmans of the

sublime porte.
CARAMANIA, or KARAMANIA, also K MAN, a Turkish province or eyalet in Asia Knor, between lat. 37° and 39° 40' N., long 50° 50' and 86° 50' E., including ancient Lycania and a portion of Phrygia Major, Galaia, and Cappadocia, bounded W. and N. by the system Anatolia and Sivas, S. by Adana, and E by Marash, famous for its genial climate and in its tobacco, silk, cotton, sesamum, honey, was, and excellent fruit. The soil is rich and dy. yielding abundant harvests; the vine and frtree, the laurel, myrtle, and clematis, and may odoriferous shrubs. flourish in profusion. De odoriferous shrubs, flourish in profes Taurus range traverses the entire length of Caramania, and forests of oaks and pines 100 fee high cover the mountain. The principal river are the Kizil-Irmak and the Sihon. Is the S. W. are a large number of small lakes; also mineral springs. Fish abound in the river al the numerous small streams of the compa The inhabitants are mainly devoted to agricutural pursuits, particularly to the rearing of live stock, the vast plains affording abundant per turage. The villages of the shepherds are co-posed of huts, covered with akins; most other houses are of earth, or of brick baked in the sun, and present a miserable appearant. Trade embraces, beside the products a wool, horse and camel hair, gum tragassis, which abounds in the mountainous district. and various other commodities. The commodities are carried on by caravans or through the nearest shipping ports. Capital, Konich. Are 27,952 sq. m.; pop. about 1,000,000, ca a great number of Armenians, Greeks, and Jews but chiefly nomadic Turcomans.

CARAMNASSA, a river in the present of Bengal. It is a tributary of the Gange, and is of interest on account of a superstains at tached to it. A certain rajah once kiled a Brahmin, and married his own stepastic. Nothing could expunge his crimes, are about in a collection of all the holy waters of the world. A charitable saint undertook the task;

the aggregation of fluid a river was which was so entirely exhausted of its powers, that ever afterward it was mnassa (deprived of virtue). ful, if obliged to pass this balen, tust its waters shall not touch him; vise all the merits acquired by a series ms and other pious practices would be

washed out.

MEL, a black porous substance, proom sugar heated to a temperature 400° and 430°. It is also formed oasting of coffee and chicory. It is dulterate coffee, imparting to it and to rages substituted for it bitterness and t is also used for coloring wines.

.T, the name of an imaginary weight, by amonds are rated; and also a term used essing the fineness or purity of gold.

r is supposed to be divided into 24 parts rats, and its fineness is reckoned accorde number of these which are pure gold. carats fine is 20 parts of pure gold alth 4 of some other metal. The term so long in use that its origin is very Some suppose it to be derived from

k κερατιον, a fruit corresponding to the iqua; whence the Arab word kyrat,
. Bruce, in his "Travels," describes a met with in a famous gold mart of hich was used as a weight from remote and which was called kuara. They e in gravity from the time the pods and being much alike they were in imes carried to India for weighing L As usually employed by jewellers, at of a carat is 4 imaginary grains, of the are required to counterbalance 72

VAGGIO, MICHEL ANGELO DA. 800 DA CARAVAGGIO.

.VAN AND CARAVANSARY, a party ers or pilgrims in the East, and an their lodging or entertainment. ay be said to be 2 distinct kinds of . 1. Commercial caravans, formed of s who are crossing the deserts or places for traffic; and 2, religious caraiposed of pilgrims going to some sacred worship. They often consist of 1,000 and several thousand camels. They or the general superintendence of a whom each caravan is divided into a of cottors or platoons. There are 5 rs: 1, the officer of the march; 2, ampment; 8, of the servants and , of the baggage; and 5, the pay-A military escort and a hybeer or These caravans tend each caravan. ostly by night in the hot season, and y do so are guided by means of fires carried in iron boxes, supported on s, and borne at the head of each cottor ny. Each cottor has a box differing rom the others, and so the boxes serve rds to enable each pilgrim to know his

cottor. When a caravan is to encamp, the cottor standards are sent forward and stationed, and each cottor on coming up must pitch around its own standard. The places of all, both in the encampment and march, are permanently allotted by the bashe. It was evidently to such a commercial caravan, made up of Ishmaelites and Midianites, that Joseph was sold by his brethren. The religious Mohammedans who make the pilgrimage to Mecca. Burckhardt, the great eastern traveller, who was at Mt. Arafat when the Syrian and Egyptian caravans for Mecca were enterprised at its been have interpretable. camped at its base, has given a very interesting camped at its base, has given a very interesting description of the scene. From the top of the mountain he counted 8,000 tents, while he says that far the greater number of the pilgrims were, like himself, tentless. The number of pilgrims he estimated at 70,000 in these 2 caravans, and the number of languages they spoke at least at 40. The wife of Mehemet Ali required 500 camels to transport her baggage in the pilgrimage.—The CARAVANSARIES of pilgrims are generally the rudest structures consistent with the purpose of protection. are mostly the creations of charity on 'the part of the inhabitants of the desert. Sometimes they are kept to receive travellers for pay when they are more generously arranged and furnished. The first mention we have of such inns may be that in which the children of Jacob stopped to rest and feed their asses on their return to Egypt. The caravansaries for the accommodation of the commercial caravans are not provided by charity, but are erected at the expense of the merchants themselves.

CARAVELLAS, a seaport town of Brazil, on the bay of Caravellas, which opens into the Atlantic. It is a well-built place, and its harbor is the most frequented of any in the province. The productions of the province are exported hence to Rio, Bahia, and Pernambuco.

Pop. of the district, 5,000. CARAWAY, the fruit or seeds of the corum carui, a small biennial plant, which grows wild in the meadows and pastures of central and northern Europe, and is cultivated in gardens, as it is in this country. The root, which in the cultivated plant resembles the parsnip, is used for food in the north of Europe. The seeds mature the second year of the growth of the plant. They are collected by mowing the stalks and threshing, which, from the smallness of the seeds, should be done on a cloth. They are valued for their medicinal properties, for which, or rather perhaps for their pleasant aromatic flavor, they are introduced into the cakes called seed-cakes, and into some kinds of sugar plums. In Europe they are used in confectionary, to flavor liquors and cakes, and also bread, cheese, and other articles of food. Their medicinal action is to stimulate the digestive organs, and remove flatulency; they are used also to aid or modify the action of other medicines. An es-sential oil, oloum cari, is prepared by distillation

of the seeds, which possesses their properties, and is used to flavor medicines, and correct their named carracrol, is obtained by distilling oil of caraway with hydrated phosphoric acid, and turning the liquid back into the retort until it ceases to have the odor of caraway. It has the property of affording immediate relief to the tooth-ache when introduced into the tooth. Caraway seed is imported from Europe, and is also supplied in part from our own gardens. It is largely cultivated in Essex and Suffolk, England, being sown on old pasture lands, together with coriander and teazle. The coriander ripens the first year, the caraway in the summer, and the teazle in the autumn of the second year.

CARBAZOTIC ACID, called also CARBOAZOTto and Piorio Acid, is obtained by the action of an excess of nitric on carbolic acid, and also upon indigo, gum benzoin, resin, aloes, and similar vegetable substances. It is a very bitter substance, crystallizing in yellow prisms, which are volatile, and fuse into a brownish yellow oil. Its chemical formula is C₁₈H₈ 3NO₄O₂. It has been lately introduced to notice, is said to be beneficial in intermittent fevers, and is considered valuable in the dyeing of silks and woollens. It is thought that if the grass tree, or black bay gum from Australia, were employed and treated with nitric acid, as proposed by Dr. Stenhouse, the price of this article might be greatly reduced. In 1851, in Paris, where it was manufactured, it was sold for \$2 40 per lb. The yellow and green colors produced by this substance are described as very beautiful, and not liable to fade by exposure to the air, as is the case with those colors obtained from vegetable dyes.

CARBOHYDROGENS, a term applied by some chemists to combinations of carbon and hydrogen, including a large number of liquid organic substances, as some oils of wines and non-oxygenous volatile oils; also among solid bodies the substance caoutchouc, and among gaseous bodies the carburetted hydrogen or coal gas and olefiant gas. But by others it is used to designate those compounds in which the amount of carbon and hydrogen in each differs by an equal number of atoms, or by a multiple number, and which, on this account, are said to be homologous. Their physical characters are likewise varied by their amounts of carbon and hydrogen present, which affect particularly their boiling point. Thus,

Pyroxylic spirit, $C_2H_4O_3$, boils at Alcohol, $C_4H_4O_3$, Potato spirit oil, $C_{10}H_{12}O_3$, "

Every 2 atoms of CII raise the boiling point 84° 2". This is the use of the term, as given by Dr. Thomson.

CARBOLIC ACID. In the distillation of the tar obtained from bituminous matters among the first products obtained at temperatures be-tween 800° and 400°, are some light essential oils, which collect upon the surface of the

water in the c oils with twice au and decomposing by is obtained heavier and having some of the proj which it much resembles. come is which it much resembles. come is come in the company. Its specific gravity is 1.4 ; is ing point 868° F. Its taste is our caustic. It acts upon the skin, and is part of the company. sonous; like creceote, it is used for the tout-ache. It crystallizes in needles, which sink it water. The same substance is also obtained by distilling the castoreum Canadense. Carbicard possesses in a high degree the antiseptic pro-erties of creosote, and is found to be metal in preventing the putrefaction of animal matter. By the action of nitric acid it is converted into a substance called carbazotic acid, which is an important dyeing material. It is of further use in dyeing and calico printing, by preserving from decomposition the extracts of tanning materials. ters, which are liable to ferment and be convered into sugar and gallic acids.

CARBON (Lat. carbo, coal), represented by the symbol C, one of the most common and inportant substances in nature, occurring in a great variety of forms in the vegetable, animal and mineral kingdoms, in the two first named being by far the most considerable element. The charcoal prepared from many substances belonging to these presents it pure; but the di-mond is crystallized carbon, contaminated, whon colorless, by no foreign admixture. In this form carbon possesses the most brilliant lustre, and a hardness unsurpassed, which is represented upon the mineralogical scale by the highest number, 10. (See Diamond.) Carbon is remarkable for its allotropic character, presenting itself under various forms, while still in a state of purity. Beside those named, graphite may be regarded as one of its forms, the trace of other substances met with in its purest qualities being considered accidental; also gas carbon, the extremely hard substance which is deposited upon the inner surface of gas retorts; and lampblack, the soot deposited by highly combustible bodies, as they are imperfectly cosumed. When 1 atom of carbon is combined with 2 atoms of oxygen, it forms the compound, carbonic acid gas, an essential continent of solid limestones and other carbonses, and, in a gaseous form, of the atmospheric st. Its compounds with hydrogen are called estehydrogens; they occur in gaseous, solid, and liquid forms. The chemical equivalent of our bon is 6, established by Dumas by the dismer when consumed in a stream of oxygen combining with this in the proportion of parts to 16. Carbon resists the influence many reagents which powerfully affect other bodies; acids and alkalies at ordinary tempertures have no effect upon it in its denser forms but charcoal is oxidized in boiling sitric scil Neither is it affected by the strongest has attainable in furnaces, provided it be protected

action of air or oxygen. Pieces of re found enclosed in the cinders of rnace, which have been for 24 hours n the intense heat of its interior, ing ores and limestones, but promise way from exposure to the oxygen.

The only indications of volatilizations of the control which it can be made to exhibit

t. The only indications of volatiliza-1 which it can be made to exhibit, exposing it in a vacuum to the heat sen's battery of several hundred pairs l in 5 or 6 series as to form 100 pairs times the ordinary size. It is then and collects on the sides of the e form of a black crystalline powder. effect is produced, but more slowly, g it to the heat, instead of in a vacas with which carbon does not comthe same temperature charcoal may ent, welded, and fused, becoming longer the heat is continued. It is converted into graphite. Diamond y affected. The production of gas ich somewhat resembles this volatil-1, will be seen at the close of this have also furnished some hints as to le origin of graphite. No substance, crystallized boron, is more unalterst conditions, in which other bodies chemical change. It is taken up by ls, when these are fused in contact

its presence in cast iron and steel them the qualities that distinguish malleable iron. The most valuable carbon in practical uses are its strong oxygen at high temperatures, and of resisting in some of its forms the of furnaces. The former quality my of its varieties their value as com-(see Frel), and it also renders ost powerful reducing agent of the the metals; for which purpose, as generating heat by its combustion, it d in smelting furnaces, bloomaries, sappearance as carbonic acid gas adds the convenience of its use for this Its refractory character admirably a material for crucibles; and when e form of paste of pure charcoal ound very finely, and applied as a arthen crucibles, it serves not merely the contents from injurious contact iter vessel, but also furnishes to these educing agent or flux. The black les or blue pots, are in part comraphite, which, when prepared by nd mixing with refractory earths, resists even the action of the blast in zed furnaces. Other useful purposes carbon are considered in treating of ts in which this is the principal ele-ONE BLACK, CHARCOAL, COAL, COKE, FUEL, GRAPHITE, &c.—The peculiar arbon already referred to as being ig gas retorts, and collected in crevir interior, possesses a metallic lusof mammillary structure, resulting

from the aggregation of the vesicles of which it is composed. It is sometimes fibrous, resembling graphite; its specific gravity is 1.76. Its hardness exceeds that of any other form of carbon, except the diamond. It is burned with difficulty in high heat when exposed to currents of air—a property which renders it useful for the illuminating points of the voltaic light. Its origin is commonly attributed to a deposition of carbon from oleflant gas, C.H., which is generated in the distillation of bituminous coal, and is converted by parting with 2 atoms of carbon into marsh gas or the light carburet of hydrogen, C.H., used for illumination. Dr. Hayes, from the fact that olefiant gas alone deposits carbon in the form of lampblack, and that only when mixed with bituminous vapors is the vesicular, brilliant form obtained, is led to believe that the oleflant gas is not the agent that produces this sub-limate, but that it is a product of changes caused by heat in vapors of hydrocarbons. The bituminous vapors unmixed, as those of paraffine and other fatty hydrocarbons, affording it also, closely resembling that found in the retorts, confirms this view. Dr. Hayes considers that its mode of formation may be applied to explain that of the natural graphitic compounds; and that these, and in general, sublimates composed of vesicular forms, presenting lamine, under this view, become a class of bodies which owe their forms to the transporting power of vapors in motion.

CARBON, a county in the E. part of Pennsylvania, area about 400 sq. m., pop. about 17,000, formed in 1848 out of part of Northampton county, and named Carbon from its mines of anthracite. It is a mountainous district, made up of parallel ridges running in a N. E. and S. W. direction. The largest of these is the Blue or Kittatinny mountain, which bounds the county on the S. E. The coal mines are in the smaller ridges N. W. of this. Of these, Mauch Chunk, at the eastern termination of the southern anthracite coal field, is the most important. At the top of Summit mountain the beds have been opened and worked like a quarry, the coal lying in a mass not less than 50 feet thick. The Hazleton and Beaver Meadow mines are in the N. W. corner of the county. Anthracite is the principal production of the county. It is transported by railroads from the mines to the Lehigh river, and thence by slackwater navigation and canal, and also by the Lehigh Valley railroad, down the Lehigh to the Delaware river at Easton. The Lehigh river traverses the county across the line of its ridges; but the mines are only on its W. side, and from 6 to 10 miles or more distant. The yield of the mines in this county is about one sixth of the whole production of anthracits.
Capital, Mauch Chunk; pop. about 4,000.
CARBONARI (Ital. carbonajo, charcoal-burn-

OARBONARI (Ital. carbonajo, charcoal-burner), a secret political society, which became notorious in Italy about 1818, though it had existed long before. According to some accounts, the first carbonari were Scotch charcoal-burners, patronCARBONARI

ized by Francis I., who made their acquaintance while on a hunting excursion to Scotland. Again, it is said that German charcoal-burners established such societies in the beginning of the 16th century. However uncertain the precise origin of the society, it is probable that the occupation of charcoal-burning offered inducements to mysterious associations; and at the beginning of the present century, when the Neapolitan republicans, alike opposed to the usurpation of Murat and the rule of Ferdinand, took refuge in the Abruzzi mountains, they organized, under the leadership of Capobianca, a carbonari society, adopting charcoal as a symbol of purification, and accepting the general basis of the traditional coal-burners' ritual with a view of wreaking revenge upon oppressors, or, as they expressed it in their symbolic motto: "Revenge upon the wolves who devour the lambs." Queen Caroline of Naples, and the Sardinian minister Maghella, are mentioned, in addition to Capobianca, as the prime movers of the Abruzzi league of carbonari. The little Neapolitan town of Lanciano, in the province of Abruzzo Citra, numbered as many as 1,200 carbonari, and all over the Abruzzi new societies were formed, whose political influence became so marked, that Prince Moliterni was despatched to them by Ferdinand with a view of securing their co-operation against the French. But the carbonari, although their unwillingness to bear any foreign yoke had originally given rise to their association, leaned more and more toward republicanism; and, especially when the expelled dynasty was reinstated upon the throne of Naples, they assumed an attitude of uncompromising hostility against monarchy. From 30,000 members, the number of carbonari all over Italy had been swelled in one month (March, 1820) to the enormous figure of nearly 700,000, including many persons of education and good family. A great number, however, became carbonari under the impression that the society was a masonic lodge, unconnected with politics.—The place where the carbonari assembled was called the baracca, or collier's hut; the country round their gatherings was a forest; the interior of the baracca was called the rendita, from the sale of coals which the colliers are supposed to carry on in their huts. Each province contained a large number of such baracche or huts, and the union of the different provincial huts constituted "a republic." The leading huts were called alte rendite, and had their head-quarters at Naples and Salerno. Their attempt to centralize all the huts under one and the same head proved fruitless, although some of the carbonari republics presented an imposing character of unity. There was, for instance, the republic of western Lucania, in the mountainous coast district of the province of Principato Citra, which embraced 182 baracche or huts, and had its head-quarters at Salerno, the chief town of the province.—The growing influence of the order alarmed the conservative governments of Europe, especially the Bourbons,

as, since 1819, the carbonari had put t into contact with French republic trial of the Corsican Guerini, who, ance with the decree of the alta te stabbed a fellow-member for having the secrets of the society, added to ment. Previous to 1819, the carbo ties in France took their rise princi the charbonneries, which flourished in the Franche Comté. But the mo the Italian carbonari, especially the tions in Sicily and Sardinia, gave a fro to the French fraternity, and unde pices of Buchez and Flottard, a new was set on foot in Paris, in an obs house in the rue Copeau; and in Bucings, in the rue Vieille du Temple, a military academy was established fe efit of the society. Men like Voyer d Lafayette, Lafitte, Dupont de l'Eure, Barthe, Teste, Boinvilliers, and other of mark, joined the movement, which the ritual of the Abruzzi carbonar sole modification, that while the had only the one superior division a dita, the French carbonari classed in 4 ventes, viz : ventes particulières trales, hautes ventes, and ventes supr admission to the ventes was also surr greater formalities in France, althadmission, the principle of equality and, like the Italians, the French greeted each other as bons cousins. utes of the French carbonari are gent. The faintest whisper of the se society to outsiders—or paiens, as or called-constitutes treason, and, as s ishable with death. No written c tions are permitted. The rente sup municates with the other rentes by special agents, who exhibit their a the presentation of the half of a is cut in a peculiar manner, and vecorrespond with the other half t for this particular purpose of ident the other rentes with whom the as communicate. Among the many sy signs, and passwords of the French the passwords speranza, fede, carità cial and peculiarly sacred meaning. of the rente suprême were followed the sacrifices which a carbonaro mu the interests and principles of the are boundless. In 1819 there 1 20,000 carbonari in Paris, and the associations were known under the la Washington, la Victorieuse, la l Sincère, la Réussite, les Amis de la Westermann, &c. But there were I ventes, as no vente could have mo members. From Sept. 1820, until 1821, a separate committee sat at P itary affairs, as the army contained a ber of carbonari. In 1821 the gover officially informed that the society 25 out of the 86 departments of F

ime the number of carbonari in France could wave been less than 600,000, with more than 0,000 in Italy, and perhaps 200,000 scattered er Spain, Portugal, &c. The troubles of 1820 ere ascribed to their influence, which became aly formidable by the martyr spirit displayed carbonari in the trials arising from the racy of Aug. 18, 1820, and again in 1822. ue congrès national of the carbonari, which its head-quarters at Paris, seemed for a time maipotent. All the insurrectionary movements om 1819 to 1822 were laid at their door. me of the cardinal points in the creed of the rench carbonari was to make Paris the polital focus of the world. After the July revoluon of 1830, many carbonari gave in their alleiance to Louis Philippe; but at that time a ew charbonnerie démocratique was founded by luonarotti upon the theories of Babeuf, which este, who was a prominent member, expoundd in his Projet d'une constitution républicaine. he last public vestige of a carbonari associa-

ion was in 1841 in southern France.
CARBONATES. The combinations of carconic acid with bases are very numerous, notifistanding that the acid itself is one of the most feeble, and is easily expelled with efferescence by nearly all the other acids. Merely redheat alone expels it from all the carbonates, accept those of potassa, soda, lithia, barytes, and strontian; and the last 2 are decomposed of an intense white heat. In contact with the ball heated to redness, all are decomposed,

a metal or an oxide is produced. The carunates of ammonia, soda, and potassa alone are eadily dissolved in water; the others are in-oluble, or nearly so; but if free carbonic acid present, their solubility is increased. The imple carbonates, or combinations of 1 equivlent of carbonic acid and 1 equivalent of the ase, may be regarded as neutral salts. roportion of oxygen in the acid and base of lese is as 2 to 1. Combinations of 2 equivlents of the acid to 1 of the base are bicaronates, and those of 2 of the base to 1 of the ids are called dicarbonates. Compounds e met with in nature of double carbonates, dolomite and baryto-calcite—the former a impound of carbonate of lime and carbonate magnesia, and the latter of carbonate of Tytes and carbonate of lime. Among the important carbonates are those of lime,

, soda, and ammonia, the last 3 of which we found treated of under the names of ir bases. Carbonate of lime, in its purest iral form, is the mineral calcareous spartich see). Chalk is also composed of it, and the principal ingredient in the limestones marbles. It consists of 1 atom of lime, the mical equivalent of which is 28, and 1 atom carbonic acid, 22. These making 50, the centage of each ingredient is consequently ble its equivalent number. So abundantly sed is this compound among the strata form the crust of the earth, that it has by been supposed to constitute about 1 their

substance. It is recognized by its moderate degree of hardness, being easily scratched with a knife to a white powder, whatever the color of the stone may be, and by its effervescing with acids. Heated to redness, its carbonic acid gas escapes, and quicklime remains. But it may be subjected to intense heat in strong close vessels, so that it may even be melted, and still retain its original composition.

CARBONDALE, a city of Luzerne co., Penn., at the head of Lackawanna valley, and near the source of the Lackawanna river. A railroad 17 m. long connects it with Honesdale. The Lackawanna valley is extremely rich in beds of coal, which, in the vicinity of Carbondale, are 20 feet thick. The mines are worked by the Delaware and Hudson canal company, who take out annually about 500,000 tons. The coal is drawn up inclined planes by steam engines, to a height of 850 feet; thence it is conveyed by railroad to Honesdale; and from Honesdale, by the Delaware and Hudson canal, to the Hudson river. The city was incorporated in 1851, and is rapidly increasing. Pop.

in 1854,7,500.

CARBONIC ACID, a gas discovered in 1757 by Dr. Black, and called by him fixed air. He

detected it in limestone and magnesia, from which he found it could be expelled by heat and the acids, and also noticed that it was produced by combustion, fermentation, and breathing. Lavoisier demonstrated its composition synthetically by burning carbon in oxygen, and obtaining this product. It was analyzed by Smithson Tennant, by causing it, as evolved from heated limestone, to be decomposed by the vapor of phosphorus passing over it; carbon was deposited in a light black powder; the oxygen combined with the phosphorus, producing phosphoric acid, which by its union with the lime converted this into a phosphate. The composition of this gas is,

Its chemical equivalent then = 22, and it is represented by the symbol CO₂. The volume of the oxygen it contains is the same as that of the compound produced. Compared with air, its weight is as 1.524 to 1. It may be poured almost like water from one jar into another, displacing the air before mixing with it, as may be shown by its extinguishing a light placed in the lower vessel. It is without color, but has a decided sour taste, and a pungent odor. Its feeble acid reaction is shown in transiently changing litmus paper red. Flame is immediately extinguished when it is mixed with air in the proportion of 1 part to 4. Unmixed with air, it is entirely irrespirable; it is rejected with violent spasms of the glottis. In the atmosphere it is universally diffused in proportion exceeding 1.505 part by measure, even at the greatest height reached by man. It is this small quantity which furnishes to growing plants the carbon of their solid structures; and as the supply is diminished by

this enormous absorption, the combustion and decay of organic bodies, and the respiration of animals, ever make good the deficiency. The great weight of this gas tends to keep it in the low places where it is generated, though, like other gases, it has also the tendency to mix with atmospheric air. Hence it is always prudent, before descending into badly ventilated wells, to let a candle down to prove the presence or absence of the gas. It is related by Dr. Christison, that cases have occurred of men becoming instantly insensible, even when the light burned. This may be owing to some peculiarity of the mixture of gases not understood, probably to the presence of carbonic oxide; for it has happened to the writer to descend several times into air so impure, that a candle could not possibly be lighted in it, and to remain with another person long enough to make many ineffectual attempts to ignite it, and this with no other effect than a severe headache. In mines it is a very common thing for the men to continue their work in an atmosphere so foul, that their candles go out, and are then relighted from the fire still in the wick, by swinging them quickly through the air, when they burn a little while and go out, and are again relighted in the same way. The son of Berthollet, the chemist, who destroyed him-self by inhaling the fumes from burning charcoal, writing down his sensations at the time, remarked that the candle was soon extinguished. The lamp continued to burn, and was flickering, as he became himself powerless to record more. Persons made insensible by inhaling this gas, may be restored by immediately dashing cold water This is the practice pursued at the over them. famous Grotto del Cane at Naples, in order to restore the dogs, which, for the gratification of visitors, are exposed to the fumes of the gas, into which they are dipped as into an invisible bath. Such natural accumulations of this gas are not very rare, though much that is evolved from the earth is absorbed by the waters it meets, some of which are almost as highly charged with it as the "mineral" waters of the shops. It is stated by Dr. Thomson that the Upas valley of Java, so celebrated for its pestilential vapors, is not altogether fabulous, but that these vapors are derived from quite another source than the poisonous Upas tree. From a deep dell immense quantities of carbonic acid are evolved, which contaminate the lower strata of the air throughout the valley, and sufficiently account for the remains of men and animals which lie strewed over it. When the air of wells is too impure for men to descend, it may be driven out by any of the ordinary modes of ventilation, by agitating the column for some time in any way, by the explosion of powder; or, as suggested and practised by Prof. Hubbard, by lowering a vessel containing ignited charcoal nearly to the bottom. Incandescent coals have the property of absorbing many times their bulk of this gas, and when sooled they may be raised up, reignited,

and lowered again. A well in which would not burn within 26 feet of t was thus purified in the course of an -Water readily absorbs carbonic which it may be freed by boiling, f being placed under the exhausted rec air pump. Under the ordinary preatmosphere, and at a temperature of takes up its own volume of the gas, a ing as the pressure is increased, so of the gas forced into the water. pungent, pleasant, slightly acid tast sparkling effervescence seen in bott in which it has been generated. I tained from powdered carlonate limestone, exposed to the action of hy or sulphuric acid, is used to saturate drinking. It is generated in strot vessels, capable of sustaining a pres-5 atmospheres or more. This is the water" or "soda water" of the aper both improper names, as it contai soda nor other mineral substance. the air, the greater part of the gas so and when thoroughly expelled by h water has an insipid taste. Pure detects its presence in solution, bec mediately turbid, as the lime seizes gas, and is converted into an insol carbonate. But if the gas is greatly a portion of this is redissolved. N limestone soluble in water impregi this gas, but metallic bodies are also by it, and converted into carbonates. of these are soluble and possess poise ities, regard should always be had to use of leaden pipes and vessels used t ing and containing water, which by may be impregnated with the gacopper gas generators of the drugg especially be protected by a lining of or porcelain.—By subjecting carbon to powerful pressure, Prof. Faraday in obtaining it in a liquid form. peated the experiments, and congeals densed gas into a solid form like s pressure used for this purpose is that atmospheres. Sulphuric acid is mad upon bicarbonate of soda in strong ca inders, and the gas is passed through metallic pipes into a reservoir placed ing mixture. In this it solidifies. In early experiments of Thilorier, in a public lectures at Paris, the appa iron exploded under the enormous and one of the assistants was so mu that he died in a few hours. It was by Thilorier, that when the liquid g lowed to escape into a brass box small tube, the cold produced by ti evaporation of one portion was so in it served to congeal the remainder of This snowy product, remelted and rebecomes a clear crystalline solid like ing a low conducting power, it is not t as the liquid gas; and though its r more than 100° below the zero point of eit's thermometer, it does not cause a on of cold. Mixed with ether and ormed under an exhausted receiver, set degree of cold ever known was by Prof. Faraday. The spirit there sunk to 166° below zero. With the of such a congealing temperature and ication of pressures varying from 27 to heres, Prof. Faraday succeeded in conseveral of the compound gases into and colorless transparent solids. An

several of the compound gases into and colorless transparent solids. An on of the intense cold produced by the ion in the open air of the solid gas and given in the freezing of 10 pounds of in less than 8 minutes, by contact with stances upon its surface. A large lump was kept for a minute in a red-hot

was kept for a minute in a red-hot, and a pound of mercury was immediterward frozen with it. The vapor from the solid gas possesses a higher than that from any other substance; ke the vapor from other bodies, it is aby lowering instead of raising the re. This interesting subject may be refully treated in Brande's "Manual

AIC OXIDE, or OXIDE OF CARBON, ntaining one equivalent less of oxygen onic acid, being a combination of 1 teach of carbon and oxygen—hence and by the symbol CO. It contains 42.9 of carbon and 57.1 per cent. of oxygen the compared with air is 0.967. It is a of imperfect combustion, and is genelarge fires in close furnaces in enormous

mixed with carbonic acid and other products of combustion. By the introof atmospheric air to it while highly it combines with another atom of burning with a blue flame and becomonic acid. It is visible by night undernis change, as it meets the air when rom the tops of chimneys of large furicating imperfect combustion within me, and consequent want of economy se of the fuel. In the large iron estabs, this gas is utilized by causing it to h the fresh air admitted under the f the steam engines, or in the chambers ted for heating the air blown into the . If the flow of the gases be obstructed, way irregular, explosions may result en admission of oxygen or of atmos-ir to them when highly heated. When ith pure oxygen, carbonic oxide is by s spark converted into carbonic acid explosion. The oxide may be re-oby passing the carbonic acid through ntaining red-hot charcoal or metallic th take up 1 atom of oxygen.-Carade is a colorless gas, without smell or it more irrespirable and poisonous than acid. Its inhalation as it issues from sometimes causes immediate asphyxia rorkmen. It undergoes no change like carbonic acid under heavy pressures at the lowest temperatures; nor is it taken up by water like this gas, nor does it produce similar acid reactions in changing vegetable blues to red. Heat and electricity produce no change in its when alone; when mixed with carbonic acid, it may be separated and obtained pure by introducing quicklime or potash, which absorbs the carbonic acid. The mixture free from other gases is obtained by treating the bioxalate of potash hot with concentrated sulphuric acid. Other processes also are given in chemical works.

CARBONIFEROUS (Lat. carbo, coal, and foro, to bear), usually applied to the group of rocks between the old and new red sandstones in which the great deposits of mineral coal are mostly found. The carboniferous group has the same signification as coal formation.

CARBUNCLE, an unhealthy inflammation of the surface, accompanied by a sloughing of a circumscribed portion of the subcutaneous cellular tissue; of the same nature as a boil, only deeper seated and of larger size. It begins by a hard, tense swelling, of a livid and shining appearance, and with severe burning pain; it is generally accompanied by feverish symptoms. often of considerable severity, and is alow in its progress; in from 1 to 8 weeks the skin becomes thin and perforated by numerous holes, from which issues a thin whitish discharge; the ulcers finally unite into one of large size, at the bottom of which is seen a soft grayish mass, the slough of the cellular tissue, with a very disagreeable odor; this slough or core is soon separated, leaving a deep excavation, with thin edges, and surrounded by a livid skin. The swelling may vary in size from 1 to 6 inches in diameter, and is usually found upon the back, nape of the neck, and nates; it may occur also on the shoulders, chest, lower jaw, and lower extremities. It is most common in adults and old persons, whose constitutions have been broken down by intemperance, exposure, hard study, or mental anxiety; it is always an evidence of a vitiated state of the blood and of derangement of the digestive organs. It some-times appears to be the means of removing morbific matters from the system. If of large size, in an enfeebled constitution, or on or near the head, a carbuncle may endanger life. local treatment which has been found the best, is to make free incisions into the tumor, to allow the escape of the discharge and sloughs, to relieve the engorged tissues by the loss of blood, and to excite them to healthy suppuration and granulation; warm and stimulating poultices, ointments, and lotions, hasten the cure. At the same time, the diseased secretions of the alimentary canal should be removed by purgatives; the strength supported by nourishing diet, bark, and the mineral solds; irritability calmed by small doses of opium; and the blood renovated by a judicious exhibition of preparations of iron.—In mineralogy, the name of a precious stone much valued by the ancients. It was probably a blood-red the

CARBURETS, or CARBIDES, combinations of carbon with the metals and simple bodies, as steel and cast iron, which are carburets of iron. The most interesting of these is the volatile liquid, sometimes called carburet of sulphur and alcohol of sulphur, but now known by the name of bisulphuret of carbon. It may conveniently be described in this place. It is a heavy, clear fluid, of a strong fetid odor, and very inflammable. Its specific gravity is 1.293, its boiling point 118°. It evaporates with great rapidity, absorbing so much heat, that quicksilver may be frozen in a tube surrounded with lint wet in this substance, and placed in the exhausted receiver of an air pump. Its composition is carbon 1 atom and sulphur 2 atoms, or per cent. 15.8 of carbon and 84.2 of sulphur. The mode of preparing it is to pass the vapor of sulphur over charcoal heated to redness in a tube, and collect the fluid which goes over in water. It should be redistilled to free it from moisture and excess of sulphur. This substance is particularly interesting for its strong solvent power, and the readiness with which it passes into vapor. Its volatility has suggested its use for engines, as a substitute for water, and working models have been made to run by it. The design was to condense it, and use the same material over and over. It is used now principally for varnishes, and for dissolving caoutchouc, &c. In medicine it is employed as a stimulant, to excite the natural secretions of the skin, kidneys, &c., to increase the animal warmth, accelerate the pulse, &c. Recently it has been successfully applied to indolent tumors, and to the glands of the ear to remove deafness.

CARBURETTED HYDROGEN. Two compounds of carbon and hydrogen are designated by this term, one called the light carburetted hydrogen, and the other olefiant gas. former is also known as the fire-damp of the miners, marsh gas, &c. It was observed in coal mines as early as 1640. Dr. Franklin, in 1774, called the attention of Priestley to an inflammable gas obtained in this country by stir-It was first accurately ring stagnant pools. described by Drs. Dalton and Thomson in 1811. It is a colorless gas, without taste or smell, and neither of acid nor alkaline properties. Its composition is carbon 1 atom, hydrogen 2 atoms, O H_a or per cent., C—75, H—25. Its weight, compared with that of air, is 0.555. Burning bodies immersed in it are extinguished, and it does not support respiration. It is highly inflammable, burning with a yellow flame; but it requires a high heat to ignite it. United with oxygen or atmospheric air in due proportion, a compound is produced which explodes with the electric spark or the approach of flame. mixture of air to produce an explosion may be from 7 to 14 times that of the gas. Water and carbonic acid gas result from the chemical change. In mines of bituminous coal this gas is generated abundantly, and it also issues from

lar Решвутувли some of these as used The principal interest tust attache owing to the terrible ex the English coal mines, and was phry Davy and George Stepl tigate the properties of the of discovering some methous the miners. Thus the safety covered, which still continu valuable guard next to thur Olefiant gas, the other v hydrogen, was discovered chemists in 1796, who gave it sequence of its forming an It consists of 85.11 chlorine. bon and 14.29 of hydrogen, and my proresented by the symbol C,H,H. gravity is very near that of being estimated at 0.9674-0. sesses an odor slightly etherem. are extinguished, and animals con It burns with a dense v Mixed with 8 or 4 volumes of ox 12 of air, it violently explodes by spark or flame. Exposed to red he lain tube, it is decomposed. roos ed, and light carburetted h A succession of remains. vert it into charcoal and myur occupying twice the original It is liquefied under the pr pheres, when exposed to t attained by solid carbo 5: vacuum. In this form transparent fluid.—Severas sucth for obtaining it. It results fr or fat substances in close 1 distilled with 4 to 7 times as acid yields it, and the gas is puruou u

it through lime water. CARBURIS, MARINO, count, a Greek end neer, born at the beginning of the 18th es at Argostoli, Cephalonia, died 1782. Here a thorough education at the university of B gna; being banished for some youthful but er nal folly from Greece, he assumed the Lascari, and entered the Russian service. empress Catharine II. appointed him he colonel of the corps of engineers, and intr him with the construction of the work ed with the statue intended for Peter th Carburis procured a monolith consist block of granite from the gulf of Fi feet high, 40 feet long, and 27 f This block was imbedded 15 feet d swamp. The difficulty was how to extrand convey it to St. Petersburg. Carb vented a machine for this purpose, his superintendence the block wa to the shores of the Neva, and for transported by land to the public squ

surg, where it was erected Sept. 80, 1769. apress of Russia appointed him director military academy for young noblemen ted with the engineering department of ay. But receiving permission to return see, he settled in Cephalonia. Here he ented in the cultivation of indigo, and growth of sugar and of American cotton, ter 4 years he was assassinated by some an laborers. The wife of Carburis was also wounded, but survived her husband.

nical apparatus used by Carburis in val of the Russian monolith was, at quest of the French government, placed conservatoire des arts et métiers.

tCAJENTE, a town of Spain, in the provf Valencia, in a beautiful plain on the It is handsome and prosperous, and has linen and woollen manufactories. Many remains have been discovered in its f. A battle between the Spaniards and took place near this town, July 13, 1813, the former were defeated. Pop. in 1,280.

CASS, a shell filled with inflammable sition, the flame of which issues through holes, and is so violent that it can scarceextinguished. They are thrown from s, howitzers, and guns, in the same way mon shells, and burn from 8 to 10 min-The composition is either melted over a nd poured hot into the shell, or it is l into a compact mass by the aid of liquid and then crammed into the shell. sles are stopped with corks or wooden s, through which a tube, filled with fuseition, passes into the shell. Formerly arcasses were cast with a partition or igm, like the present shrapnell shells, ttom part being destined to receive a g charge of gunpowder; but this comn is now done away with. Another carcasses was formerly in use, constructa light ball, on two circular iron crossing each other at right angles, over canvas was spread, thus forming an imly spheroidal body, which was filled with r composition, containing mostly gunpowl pitch. These carcasses, however, have bandoned, because their great lightness ; almost impossible to throw them to any a, or with any precision. The composir filling our modern carcasses vary conly, but they each and all consist chiefly etre and sulphur, mixed with a resinous substance. Thus the Prussian service parts saltpetre, 25 parts sulphur, 7 parts powder, and 33 parts colophony. The use saltpetre 100 parts, sulphur 40 osin 80 parts, antimony 10 parts, tallow s, turpentine 10 parts. Carcasses are s, turpentine 10 parts. Carcasses are used in bombardments, and sometimes shipping, though in this latter use they een almost entirely superseded by red-ot, which is easier prepared, of greater on and of far more incendiary effect.

CARCASSONNE, a city of France, chief town of the department of Aude, 488 m. S. of Paris, on the river Aude, which divides it into 2 parts, the old city and the new, joined by a bridge of 10 arches. The new town is well built, with broad streets intersecting each other at right angles. Carcassonne is an important manufacturing and commercial centre, and contains large woollen factories, producing a fine cloth, highly esteemed for its brilliant dyes, which is especially exported to the Levant, Barbary, and South America. No place, perhaps, in France, has preserved to a greater extent the aspect of a fortress of the middle ages. It is enclosed by double walls, flanked with towers, and protected by a strong castle. Carcassonne is supposed to have been the ancient Carcasum. which was the chief town of the Volces Tectorses, who were conquered by the Romans. Visigoths probably built the inner line of the walls, and part of the castle. These fortifications, however, did not prevent the storming of the town by the Saracens. Although subsequently strengthened by the warlike viscounts of Carcassonne, and defended by the heroic Raymond Roger, they could not long withstand the crusade against the Albigenses. In 1247, Carosssonne submitted to the king of France. It is the seat of a bishopric, has tribunals of primary jurisdiction and commerce, a departmental college, and other learned institutions. In the church of St. Nazaire is the tomb of Simon 'de Montfort. Pop. in 1856, 19,915.

CARD PLAYING. Like the game of chees, cards are supposed to be of Asiatic origin, and indeed seem to have been based upon the same warlike associations, some of the figures of chees having appeared also in the cards used in the Orient. In Hindostan cards were called techahar-tass, signifying 4 crowns or 4 kings, the popular name being taj or tas. The Chinese call their cards cho-pas or paper tickets; they have 80 cards in a pack, 8 suits of 9 cards each, and 8 single cards which are superior to all the others.—The most ancient form of cards is still preserved in the figures of the cards used in the French game of tarots. This name is derived from the Arabic, and the game was originally connected with religious, necromantic, and scien-tific associations. The ancient terms for cards, as naypes in Spain and naibi in Italy, are also of Arabic etymology, and signify fortune-telling. In all probability, cards were introduced into Europe by Arabs, Jews, and other oriental races, before the 18th century, the Saracens especially having made the game popular in Spain and Italy, whence the taste for it spread into Germany, France, and England. The first historical evidence of its existence in Germany presents itself before 1275, when a minute in the town hall of Augsburg records the fact that "Rudolph I. amused himself with playing cards and other games." The use of cards in Italy is mentioned as early as 1299. The first authentic record in France occurs in 1898, when in the official accounts of Charles Poupart, treasurer

of the royal household, an item of expenditure appears for trois jeux de cartes presented to Charles VI. by Jacquemin Gringonneur, an artist. As early as the 15th century, an active trade in cards sprung up in Germany, and was chiefly carried on at Nuremberg, Augsburg, and Ulm, the demand from France, Eugland, Italy, Spain, and other countries producing great prosperity among the manufacturers. The most eminent manufacturer of cards in France in the 16th ceutury was Jean Volay. In England the manufacture of cards flourished especially under Elizabeth. But no sooner had cards come to be generally used in Europe, than they were prohibited by several governments, partly from moral considerations, the first games, as Landsknecht in Germany, lansquenet and piquet in France, being games of chance; partly from considerations of political economy, as in Eugland, where the importation of foreign cards was considered injurious to the prosperity of home manufacturers. The prohibition, however, only tended to increase the taste for cards. In England, under Richard III. and Henry VII., card playing grew in favor. The latter monarch was very fond of the game, and his daughter Margaret was found playing cards by James IV. of Scotland, when he came to woo her. The popularity which cards gradually obtained in England may be inferred from the fact that political pamphlets under the name of "Bloody Games of Cards," and kindred titles, appeared at the commencement of the civil war against Charles I. of the most striking publications of this kind was one in 1660 on the royal game of ombre. In "Pepys's Diary," under the date of Feb. 17, 1667, it is stated that on Sabbath evenings he found "the Queene, the Duchesse of York, and another or two, at cards, with the rooms full of ladies and great men."—The marks upon the suits of cards are supposed to have been originally intended for a symbolical representation of the 4 different classes of society, hearts representing, according to this supposition, the clergy, spades the nobility (It. spada, a sword), clubs the serfs, and diamonds the citizens. The figures originated with military and historical associations. So we find the kings in the first French cards representing the monarchies of the Jews, Greeks, Romans, and French. The queens, knaves, the ace, and the number of the cards. were based upon similar ideas; but many changes and modifications have taken place at various periods, according to the customs and tastes of different countries. Breitkopf's Versuch des Ursprungs der Spielkarten is one of the most profound dissertations on the subject. Singer's "Researches into the History of Playing Cards" was published in London in 1816; Leber's Etudes historiques sur les cartes à jouer, in Paris in 1842; and Chatto's "Facts and Speculations on the Origin and History of Playing Cards," in London in 1848.

CARDAMOM, a name rather vaguely applied in commerce to the aromatic seeds of various East India plants, of the natural order

singiberacea. amomi was of Pauly a damom of Sumatra mum cardamomum variety from Madagascar as an cardamom, but other varieties Ceylon are also called by the some authorities. The car macopæias, and the best known in u is that from Malabar. It is the product u renealmia cardamomum of Roscoe, a pu nial plant with a tuberous root, growing will in the mountains, and cultivated by the nativa. The seeds are exported in their capsules, which are also aromatic, but are rejected in the use of the article for medicine. Cardamon seeds are valued for their aromatic and pungent qualities, and are much used to flavor various medica and cordials. The natives of the East we the as a condiment. One variety, known as grain of paradise, Guinea grains, and Malagueta p per, is imported in seeds from Guinea, and a from Demerara, where the negroes have introduced and now cultivate it. The plant is proably the amomum Melegueta of Roscoe. though one of the varieties found in the Eng lish markets is from the A. grans paradis of Sir J. E. Smith. The negroes use the seeds a seasoning for food, and in Africa they are high ly esteemed among spices. Their flavor is hig pungent and peppery. In England they find extensive use for giving a factitious strength adulterated gin and other liquors, and frequently appear as one of the ingredients of the so-calls gin flavorings." (See Gix.) They are also ministered as medicine in veterinary practice.

CARDAN, GIBOLIMO, an Italian sevent and physician, the illegitimate son of a jurist and physician of Milan, born at Pavia, Sept. 24, 1501, died in Rome, Sept. 21, 1576. When young be joined the order of St. Francia, but abandosed it afterward. Devoting himself to the study of medicine and philosophy, he obtained his depreted of M.D. in 1525, practised his profession for sea time, and successively officiated as professor of mathematics and medicine at Pavia and Bolog He published a treatise on mathematics, Are magna, which gained for him a high repen-tion in that branch of science; while in the medical profession he ranked equally high the king of Denmark offering him, but in va professorship. While on a visit to Scotlan was halled as a great physician, and said to her effected some famous cures. Pecuniary barrassments driving him away from Bol he repaired in 1570 to Rome, where he the rest of his life, honored with the frien of Gregory XIII., who settled a pension on him, and caused him to be admitted a member of the college of physicians. He was noted much for his eccentricities as for his abilities. and his writings as well as his life present & curious combination of industry and absertillis most famous treatise, Do Subtilitate, 19 vided into 21 books, which are taken up by various branches of scientific, philosophics

ysical speculations; the 16th book, treats of science in general, and advocates the propriety of begin-lucation of the young by teaching stry, being the most sensible. A on of his works is considered the te (10 vols. fol., 1663).

AS, one of the administrative divi-W. department of the Spanish West v of Cuba. Area 106 sq. leagues.

, 86,361, including 27,521 whites, piored, and 55,016 slaves.—CARDE-ief town of the division, situated coast of the island, pop. in 1858, m. E. by S. of Havana, is con-ilway and telegraph with Havana as, and is, after Havana, Matanzas, de Cuba, the most important comporium of Cuba, the custom-house 1854 having been \$409,000. The ordenas has 5 to 6 fathoms of water chorage. At its entrance is a fixed high. The fillibuster Lopez effected re in 1850, and toward the end of solated the town, burning the theam-house, and the powder-magazine, property to the extent of \$1,000,000. Ludovico, called also Cigoli, a ainter, born at the castle of Cigoli, in 1559, died in 1613. He was the to di Titi, but was indebted for his careful study of the works of Cor-"St. Peter healing the Lame" has ed as inferior only to the "Transfig-Raphael. His other most esteemed "St. Jerome" and the "Conver-'aul" at Rome, the "Stoning of St. 1e "Trinity," "Mary Magdalene," e Homo," at Florence. He enjoyed e reputation also as an architect, and fine Renuccini palace at Florence, my palaces and public edifices there he excelled also in some degree as

a town of the Thracian Cherne head of the Melanian gulf, which
destroyed when he founded Lysiwas rebuilt in the Roman times,
te of the ancient city a village now
bears the name of Hexamili.

I published a treatise on perspective.

', the county town of Glamorganon the river Taff, 170 m. from Lony; pop. in 1851, 18,351; returns one arliament. Until within the last 30 was a mere village; but the confine dock by the marquis of Bute, 1 proprietor, and the consequent he collieries of South Wales, have verted it to an important commer-It is now the principal shipping

Welsh steam coal, beside iron, her local products. The entrances sisted of 475 foreign vessels, ton; 1,816 consting vessels, tonnage ie clearances were 1,711 foreign age 344,311; 6,212 coasting vessels.

sels, tonnage 481,696. The greater part of the town is of course modern, and consists of good buildings, including 2 fine churches and several other places of worship. There are 5 schools, an infirmary hospital, and a union workhouse.

CARDIGAN, a seaport and borough of Wales, 289 m. from London; pop. in 1851, 3,876. The town carries on a small shipping trade along the coast, exporting agricultural produce and slates, and importing coal, limestone, and timber. The entrances of coasting vessels in 1852, were 587, tonnage 13,783; the clearances 50, tonnage 1,519. The foreign shipping is inconsiderable. There is an ancient castle in the town, the foundation of which is ascribed to Gilbert de Clare, toward the end of the 12th century.

de Clare, toward the end of the 12th century.

CARDIGAN, JAMES THOMAS BRUDENELL,
earl of, a British general of cavalry, born at Hambleton Oct. 16, 1797, was educated at Christ church, Oxford, and was gazetted May 6, 1824, as cornet in the 8th royal Irish hus sars, under the courtesy title of Lord Brudenell. His family influence and wealth in England procured for him a rapid promotion, and in a few years he had attained the rank of major. At this time he became notorious for eloping with the wife of Major Johnston, whom he married on June 19, 1826, after the lady had obtained a divorce from her first husband. The union, however, proved unhappy, and eventually terminated in a separation. The death of this lady took place in London, July 15, 1858. Lord Brudenell was next, Dec. 8, 1880, made lieuten-ant-colonel of the 15th hussars. Lady Augusta Wathen, a lady of high connection, the wife of the major of that regiment, having obstinately refused to visit Lady Brudenell, Lord Brudenell subjected her husband to a series of persecutions which resulted in a court-martial, disclosing on his lordship's side a course of tyranny and espionage, which, notwithstanding his rank and influence, compelled his removal from the regiment and from active service. Indeed, it was only through the interference of William IV. moved by the entreaties of his father, that Lord Brudenell was restored and appointed lieutenant-colonel of the 11th light dragoons, then serving in India. This restoration to his rank was in 1884. Lord Brudenell was a member of the house of commons from the period of his coming of age in 1818, until Aug. 14, 1837, when on the death of his father. he became earl of Cardigan. After his regiment returned from India Lord Cardigan got himself into difficulties with the officers, who, one by one, had to sell out until the feeling of the regiment broke into mutiny in what was known as the "black bottle quarrel." This quarrel arose in 1840, while Lord Cardigan's regiment was stationed at Canterbury. One of his officers, Capt. Reynolds, having caused wine to be placed on the table in a "black bottle," Lord Cardigan accused him of degrading the mess to the level of a pot-house. This led to angry words: Capt. Reynolds was placed under arrest, demanded a court-martial, but this

privilege was withheld from him, and, as the public thought, unjustly. The excitement created by this affair and by his subsequent mis-understanding with another officer also of the name of Reynolds, had hardly subsided, when he fought a duel with Capt. Harvey Tuckett (Sept. 15, 1840), because this officer had censured his conduct in the "Morning Chronicle" newspaper. Capt. Tuckett was wounded, and Lord Cardigan tried before the house of lords, but, although acquitted, public opin-ion was against him. His reputation, however, as an accomplished cavalry officer, and the satisfaction which the duke of Wellington expressed in 1848, with the efficiency of the 11th hussars' regiment, which was under Lord Cardigan's charge, led to his promotion. On the outbreak of the Crimean war Lord Cardigan was raised to the rank of major-general, and appointed brigadier in command of the light cavalry brigade. This brigade constituted the celebrated "six hundred," whose charge at Balaklava will long be remembered as one of the bravest yet wildest feats, perhaps, ever told of in the history of war. On that occasion of in the history of war. On that occasion (Oct. 25, 1854), Lord Cardigan is said to have received from Lord Lucan, his brother-in-law, an order to capture certain guns from the Rus-A mile and a half had to be traversed, under fire, before the enemy could be met, and the Russian forces stood in formidable array in every direction. The enterprise seemed hope-less. Cardigan, however, led on the charge, and actually took the guns, his men cutting their way through the infantry support and through the cavalry, and then back again, under the play of the Russian batteries, but with fearfully diminished numbers, the survivors not exceeding 150. As the hero of this daring exploit, Lord Cardigan was received with great enthusiasm on his return to England, and appointed inspector-general of the cavalry. The charges, however, subsequently alleged by the Crimean commissioners, tended to reduce the high estimate placed upon his services.—In appearance Lord Cardigan is the beau-ideal of a light dragoon. Though 61, he carries his years with an arrogant air of juvenility. His frame, though slight, is well proportioned and knit, and he is gay and dauntless in bearing.

CARDIGANSHIRE, a county of South Wales; area, 698 sq. m., or 443,387 acres; pop. in 1851, 70,796. The county is mountainous, except in the N. E. near the sea, where it is flat. The rivers are small, and there are several small lakes. Slate is the prevailing geological character of the county. Veins of copper, lead, and zinc are found. Some domestic manufactures of woollen are carried on; oats, butter, and slates are exported. Remains of castles and religious houses are frequent, as are druidical remains

and Roman encampments.

CARDINAL (It. incardinars, used synonymously with intitolars, to commission), originally, any clergyman bearing an official appointment in a principal church. By degrees, however, the title became the exclusive principal clergy of the R as the natural counsellors un quired an influence and a perior kind. Thus, in ecclesiastical senate was formed w: assist the sovereign pontiff in the sof the church; and the co body was continually perf ultimately fixed in its present Sixtus V. The dignity of cardi in the Latin church, after t to elected by them alone. Caru rank of secular princes, being tors, and next after kings. Thethose worn by bishops, which those who are not in sacred ord use) are a purple mantle, a of sapphire set in gold. T y 3 classes, cardinal bishops, carm cardinal deacons; and the 1 these 3 classes is respectively the 1st class belong the bisho gan sees of the Roman province, vii Porto, Albano, Tusculum, Sabina and l Their title arose from the cir they were obliged to officiate un certain days in the greater and were inaugurated or incaru nati) into these functions, the chief of the cardinals, w above, the clergy of these pra The cardinal priests were o priests who presided over the to the principal churches, of wh already 25 at the close of the cardinal descons sprung fr deacons, of whom there were u afterward 14, each one having poor in a certain district of the ern times the cardinal priests ly archbishops and bishops. ever, derives his title from a par and in that church he l The cardinal deacons may be or subdeacons, or even inferior are generally men who have devoces to the study of law, diple ship, and are employed in a of the Roman court. Every order he may have received, was episcopal jurisdiction in his ch. solemn benediction, and Those who are priests can give minor orders. They take preced ates, even patriarchs, and have a unin general councils. The appointment nal rests exclusively with the pope. ber is never quite filled, and il some reserved in petto, to be a death occurs or any other s presents itself. It is custo few cardinals recommended by Catholic sovereigns, who are dinals. The constitutions of but decrees of the council of Trent un

ls should be selected, as far as possim all nations. The reasons of this
m are evident; for, as the pope exercises
e authority over so many national
es in different parts of the world, he
he advice of wise and learned men from
ilized countries in order to give a truly
e character to his administration.
IDINAL POINTS of the compass, the
axactly N., E., S., and W.
IDINAL VIRTUES, those moral virtues
are regarded as being the basis of, and
d in greater or less degree in, all right
so named from cardo, a hinge, as dethe fundamental point on which all
turn. Of these the ancients reckoned 4,
nting the 4 principal divisions of the

prudence, temperance, and fortitude. IDOZO, Jacob N., an American journal-political economist, born at Savannah, me 17, 1786. About 1794 his family reto Charleston, S. C., where he received English education, and from his 12th ras put to mechanical and mercantile s. In 1816 he became editor of the

which a hinge describes. These 4 were

rn Patriot" newspaper in Charleston, un, in 1823, he became sole proprietor. long studied the principles of trade, ree, and finance, and his purpose from t was to render his journal especially an

t was to render his journal especially an of free trade doctrines. Having a conview to those commercial questions in the interests of the southern states were ed, the commercial relations of the U.S. in British West India islands, in their then ted condition, engaged a large share of his on. The removal of those restrictions object of constant solicitude with Mr. e's administration. To force a relaxation is British government, congress in 1818 320 adopted counteracting regulations, whatever their effect on the British, ound to be oppressive on southern comIn 1822 various seaport towns of the

such as Norfolk and Baltimore, petitionfor their removal. The city of u was so far inclined to second the at that a large public meeting was held, morial was drafted for its acceptance. ozo regarded the case as an excepand opposed the memorial. He

and opposed the memorial. He against unlimited freedom of interwhere reciprocity was denied, and at ourned meeting of the citizens the mewas rejected, leaving the whole matter re, in the hands of congress and the e. The result which was aimed at countervailing resolutions of congress a seen in the partial removal of the ictions. When this was done, Pres-

ictions. When this was done, Presurve opened the ports of the United the vessels of the British West In-Cardozo took an active part in the ient, in 1823, of the Charleston chamierce. The tariff of 1824 met with VOL. IV.—28

little or no united opposition from the south. When, in 1827, an increase of protection was agitated, it resulted in the act of 1828. Mr. C. brought the subject before the chamber, and was one of a committee appointed to draft a memorial to congress, which was unanimously adopted by the citizens of Charleston in a public meeting. The arguments on the subject, how-ever new, rapidly made their way into the public mind of that state, and constituted the chief political capital of the press and par-ties. The agitation ripened into nullification, the controversies upon which began in 1828. Mr. Cardozo continued his opposition to the protective tariff, still maintained his free trade argument, but declined to adopt the extreme practical results to which nullification was expected to conduct. The advocates of nullification succeeded in the state, but Mr. O. forfeited none of the public esteem in consequence of his course. He continued to conduct the "Southern Patriot," keeping it steadily the exponent of the commercial principles of which he had been so long the advocate, until 1845, when he sold the paper, and soon after, in the same year, established the "Evening News," another daily newspaper, with which he has ever since been associated as commercial editor. His reputation as a political economist has become fixed in the esteem of the southern people, though few know how extensively he has written on all the subjects we have indicated. He has contributed to the "Southern Quarterly Review" and other periodicals, and in 1826 he published "Notes on

Political Economy," 1 vol. 8vo.

CARDROSS, a Scotch village, on the Clyde, in the county of Dumbarton, pop. 4,400, with bleacheries and cotton manufactories; celebrated for its Castle hill, the name given to the site where once stood the castle which Robert Bruce built, and where he died, June 7, 1839.

CARDS, in cloth manufacture, are combs of a peculiar construction, which serve to

disengage the fibres of an entangled mass and lay them parallel. Every fibre on the card is doubled up, and they are afterward extended by an operation called drawing and doubling. Cards are made by inserting in a piece of leather fine wires projecting about inch from the leather, and all slightly bent the same way. These small hooks are prevented from turning by being made in pairs. Two of them are made of a piece of wire bent like the 8 sides of a square; this is inserted through 2 holes in the leather, and the 2 projecting ends are bent in the same direction. The leather, bristling with hooks, is attached to a flat or cylindrical surface. A card is an instrument in which 2 such surfaces are opposed, and made to move at a very small distance from each other; the cotton or wool to be disentangled is placed between them. The cards opposed to each other are placed in different positions according to the result to be obtained. At first the hooks are placed in op428 CARDS

posite directions, so that at each stroke some of the fibres of the tuft are hooked on one card and some on the other; this is called the tearing position. After all the fibres are hooked on, one of the cards is reversed, and at the next stroke the card which moves in the direction pointed out by its own hooks strips from the other all the fibres; this is called the strip-ping position. Flat cards have been used by hand in the manner just described. Cylinder cards and the carding machine were invented in the 18th century by Lewis Paul of Northampton, England, and were much improved by Sir Richard Arkwright. The cotton or wool is in general passed through 2 carding machines before it is ready for the next operation; these are called the breaker and the finisher, and the only difference between them is that the teeth of the last machine are finer than those of the other. . The principal parts of the most improved carding machine of our time are: 1. A main drum, 35 inches diameter, with a circumference velocity of 20 feet per second; it is covered with strips of cards parallel to the axis, laid on at a small distance from each other, and moves in the direction pointed out by the teeth. 2. Top cards, or narrow, flat cards, which are stationary above the main drum, and parallel to its axis; they rest by their ends on the frame of the machine, are tangential to the drum, and their distance from it is nicely regulated by screws. The teeth of the top cards and of the drum are in the tearing position. 3. Two feed-rollers, 11 inch diameter, velocity 21 inches per minute; they are on a level with the axis of the drum, and on the side which moves toward the top cards. A large runner or cylinder, 61 inches diameter, 14 feet velocity per second; it is tangential and parallel to the drum, and is situated between the feed-rollers and the top cards; the teeth are in the tearing position. The drum moving from right to left, the large runner moves from left to right. 5. A small runner, 31 inches diameter, 7 feet velocity; it is tangential at the same time to the drum and to the large runner, and stands between this and the feed-rollers; it moves from left to right, strips the large runner at a velocity of 14+7=21 feet, and is stripped by the drum at a velocity of 20—7=13 feet. 6. A doffer cylinder, 14 inches diameter, 27 feet velocity; it is parallel to the drum, and turns from left to right; its teeth are in the tearing position; it stands in front of the top cards. 7. A doffer knife, like an ordinary comb; it has an up and down motion in contact with the doffer, which it strips of all its fibres, thus forming what is called a fleece. 8. The funnel through which the fleece passes, and where it is contracted into a ribbon. 9. Two pairs of drawing rollers, and 2 delivery rollers. The width of the machine, or length of the various cylinders, is 8 feet. The strips of cards on the runners and doffer are placed spirally. Sometimes small card cylinders, called squirrels, are substituted for the top cards.

This machine operates as follows or cotton to be carded, after beit in the shape of a sheet in another engaged between the feed-rollers. are taken off by the drum and car large runner, which takes off the and is stripped of them by the s which returns them to the drum. carries them anew to the large runn are hooked more firmly and move the top cards; some of them remai others are completely extended an doffer, which takes off a portion of t are stripped from it by the doffe. form the ficece; the others are ca again to the runners and top card passage some are taken off. From the top cards and cylinders are clifibres accumulated in their teeth. cards 2 lbs. 5 oz. of cotton per hour chine for making Cards was th of Amos Whittemore, of Cambridg which he took a patent in 1797. patent was issued in 1811 to J. (fillet of leather is prepared of equ throughout by drawing it between and a scraper, which takes off all One end of the fillet is then place feed-cylinders, and is guided lateral. These are acted upon at intervals, ar they move they carry the fillet s distance between 2 hooks. When sary to place the hooks in oblique li tion described is combined with a n feed-rollers. After each motion of leather, a fork brought down at the pierces 2 holes in the leather; a pie drawn steel wire is fed in; a sm: steel descending upon it holds it wire is cut off; 2 sliding pieces of it up against the sides of the blo points are pressed into the holes in The blocks and other parts spoke out of the way, and other parts ward to drive the staple in and be required angle. All these operat fected by means of rotary cams the ends of levers or of rods, sor periphery, some by their sides, as is chines for manufacturing small of require to be submitted to nur complex motions.—Nearly 100 p been granted by the United States! ments in cards, carding machines making. About 5 new ones are every year.
CARDS, MANUFACTURE OF. 1

CARDS, MANUFACTURE OF. I address cards are prepared from made by pasting a sheet of cartridg tween 2 sheets of white or colore for ornamented backs, sheets may with the intended design. Cardbo thickness may have 2 or more stridge paper interposed. As ordithe first process, called mingli is sheet of cartridge paper b

heets in a ream of white demy paper. The pile thus made is called a head. Placed on a table at the left hand of the paster, he draws down the top sheet, and brushes it over with paste; then the cartridge paper, drawn down on the pasted surface, is treated in the same way, and its surface is immediately covered with 2 sheets drawn down at once upon it. The upper one is pasted for the next cartridge paper, and so on till the head is again made up. It is then subjected to the action of a powerful hydrulic press, by which the water is expelled from the sheets. Removed from this, each outside pair is successively taken off, one board at each end of a copper wire, and suspended on lines 24 hours in a heated room to dry. The boards are then passed between stiff cylinder brushes, by which they are well rubbed and partially polished. They may next be vanished on the side to be the backs, thus making them water-proof and less likely to be soiled. They are then rolled between a warm iron and a paper roller, as in the process of calendering, next between 2 polished iron rollers, next with smooth sheets of copper interposed between the cardboards, and finally they are subjected to a pressure of 800 tons. The boards are thus made straight and even, and receive a finely polished glazed surface. If not intended for playing cards, they may now be out into the required sizes of address cards. To be enamelled, they receive an application of china white, or silver white, (a very pure variety of white lead,) which is first mixed with water containing some fine size, made from parchment-cuttings boiled down. This application, being smoothed over with a badger's hair brush, is first dried, then rubbed over with flannel dipped in powdered tale, and finally polished with a close-set brush.—The old way of painting playing cards was by the use of stencil plates, with openings corresponding to the spots, each plate comprising many cards, so as to cover a cardboard. Through these openings the color was introduced with a brush. The court or face cards required a stencil for each color, one being applied and then another, the open spaces in each being where the color used with it belonged. The operation somewhat resembles the Printing of colors on cloth. (See CALICO.) A cardboard, when thus painted, was cut up into its separate cards. The English manufacturers receive the print of the ace of spades from the stamp office, this being the duty card, costing the manufacturers 1s. sterling. But if the cards are for exportation, no duty is required, and the duty card in this case bears a printed notice, forbidding its use in Great Britain and Ireland, under a penalty of £20. Printing has succeeded to the use of the stencil, and the process in use for applying different colors, is by blocks, essentially the same as those of the calico printer. The colors are carefully preared of the best materials—French lampblack for the black, and Chinese vermilion for the red—each ground in oil.—Of the 4 principal card manufactories in the United States, 1 is in Philadelphia and 8 are in New York. Mr. Levi, in the latter city, has the largest establishment. He employs 100 hands, has a 25 horse-power steam engine, and all together has \$40,000 worth of machinery. Every week 250 gross of packs are turned out of this factory. The largest demand for cards is in the southwest, each pack is used only once or twice, and then thrown away; a great number are used once on board of our western steamboats, and then thrown away. See Card

OARDUCCIO, BARTOLOMMEO, an Italian painter, born at Florence about 1560, died in Madrid in 1610. He painted the frescoes in the palace cloisters and the ceiling of the library at the Escurial. His greatest work is the "Descent from the Cross," in the church of San Felips, in Madrid. He also wrote a book on painting,

published at Madrid, 1688.

CARDUCHI, ancient warlike tribes, the ancestors of the present Koords, who inhabited the mountainous regions between Mesopotamia and modern Persia, now named Koordistan. They were famous for their skill in archery, and baffled all the attempts of Persian monarchs to subdue them. The retreat of the 10,000 Greeks, after the battle of Cunaxa, lay through the country of the Carduchi, and was harassed by constant attacks from the natives. Xenophon gives a complete account of their habits and modes of life in his history of this retreat.

CAREER, in horsemanship, both the ground that is proper for the manege and a course, and the race of a horse which does not go beyond 200 paces. The original use of this exercise was for purposes of arms, in the tilt yard. horse, to be perfect in his career, should spring at once to speed, increase his momentum at every stride, and be at his utmost at the moment of reaching the extremity of the distance. -In arms, career signifies the course which is run, in the tilt or tournay, by two knights, from the place at which they sit on their horses, facing one another, with their visors closed, their shields hanging about their necks, and their lances in rest, awaiting the signal given by the words *Laises aller*, "Let them go," and the blast of trumpets, to that where they encounter in the middle of the lists. The great merit of the career, in the horse, is to spring at once, at the sound of the trumpet, before feeling the spur, to his full speed, and to increase or maintain the impetus to the very moment of the shock; for, in exact proportion to his delivering his maximum of weight and speed against the horse opposed to him, or relaxing it, and meeting his adversary panting and blown, will be the effect of the charge. The beauty of the career, in the rider, is to deliver the point of the lance horizontally, or, as it is technically called, fairly, against the visor or shield of his antagonist, so as either to unhorse him, or to break the spear to splinters, at the same time sitting so

firmly himself as to resist the blow of the opponent's lance, and with so good a hand as to prevent the charger he rides from swerving or going down in the shock. To unhorse the adversary, himself unshaken in his seat, is the crowning glory of the career. To break the lance crosswise on his person, failing to strike him with the point, or to strike him with the point on the leg, thigh, right arm, or anywhere except on the shield or crest, is the greatest fault. To be unhorsed, or to lose a stirrup, or to let fall the lance, was to lose the career.

CARÊME, Louis Antoine, a French cook, born June 8, 1784, at Paris, died Jan. 12, 1883. His family was so poor, that when a mere boy, he was sent out by his father to try his luck in the great metropolis. He found admittance to a low cook-shop, where he worked for his living. At 16 he became assistant cook at a fashionable eating-house, and, through his natural taste, made rapid progress in his profession, which he studied scientifically. In 1804 he had reached such a degree of proficiency, that he entered Prince Talleyrand's kitchen, where he accomplished wonders which gained him an unparalleled reputation. In 1815 he consented to serve the prince regent at London, but, unable to reconcile himself to the climate of England, he left the prince at the end of 2 years. Russia, whither he was called by Emperor Alexander, was equally uncongenial; neither could he remain permanently in Vienna, where he prepared several banquets for the emperor. He also evinced his talents at the congresses of Aix la Chapelle, Laybach, and Verona, remained some time at the court of Würtemberg, and finally returned to France, where his services were secured by Baron James Rothschild. Carême was indeed an artist in his line, always eager for progress and improvement; he peculiarly excelled in pastry, and the general arrangement of serving the table. Most of his earnings were devoted to culinary researches, and to publications expounding the mysteries of a calling which he raised to the dignity of an art. His most important book is Le patissier pittoresque, illustrated by 128 plates, but the most useful are Le cuisinier, and Le pâtissier Parisien. special erudition is evinced in Le maître d'hôtel Français, a comparison between ancient and modern cooking.

CARENNAC, a French commune and village, in the department of Lot, 85 m. N. N. E. from Cahors; pop. 1,122. It has an ancient abbey, of which Fénélon was the head when he was made archbishop of Cambrai, and a tower in which he composed a portion of his works. Freestone is wrought in its environs.

CAREW, Thomas, an English poet, born in Gloucestershire about 1589, died 1639. He studied at Oxford, and afterward became gentleman of the privy chamber to Charles I. He enjoyed the friendship of Ben Jonson and other poets of the day, and at court he was much esteemed for the vivacity of his wit and the elegance of his manners. He wrote sonnets and

amorous poetry, and a marque set to such by Henry Lawes, called Corous Britannian It was performed by the king and nells, a Whitehall, in 1688, on Shrove Tuesday.

CAREY, ALIOR, an American authores, bern in 1822 at Mount Healthy, near Cincinneti. She had but the slight advantages of education fraished by an occasional attendance at a county school. She first attracted attendance at a county school. She first attracted attention by some sketches of rural life, published in the "Katinal Era," under the signature of Patty Lea, and he since been a frequent contributor to periodical. In 1850 a volume of poems, the joint work of herself and her sister Phosbe, appeared in Philadphia. This was followed in 1851 by her remantic poem of "Hualco," by "Lyra and other Poems" the next year, and by a new collection of poems in 1855. During the same period she has published, under the title of "Clovernook," 8 series of aketches of western life and seenery, and also 8 novels, the first of which extitled "Hagar, a Story of To-day," appeared in 1858, and was quickly succeeded by "Married, not Mated," and "Hollywood,"—Pause, an American poetess, the younger sister of the preceding, born near Cincinnati, in Ohio. She has contributed frequently to periodicala, and also published in 1854 a volume of "Poess and Parodics."

CAREY, GEORGE SAVILLE, an English dramatic poet, born in 1745, died in 1807. He was first intended for a printer, but became a actor, and spent 40 years in composing and singing popular and patriotic songs. He was the author of certain farces by which he procured a precarious subsistence.

cured a precarious subsistence.

CAREY, HENRY, a poet and musicisa, was a natural son of George Saville, marquis of Haffax. "God save the King" has been attributed to him, and the ballad of "Sally in our Alley" is his. The various talents of this gentleman did not procure him a comfortable subsistence, and, in a fit of desperation, he killed himself in 1743.

CAREY, HENRY CHARLES, an American po-litical economist, a son of Mathew Carey, born in Philadelphia, Dec. 15, 1798, was educated at a bookseller, entering his father's store at the early age of 8, and remained there, m his elementary studies in literature with ness, until his majority, in 1814, when he became a partner in the firm. This association continued till his father retired in 1831. then became the leading partner in the first Carey and Lea, and subsequently in that of Carey, Lea, and Carey, in their time the largest publishing house in the country. ing house in the country. In 1834 he ca lished the system of trade sales, now the g medium of exchange between American sellers. In 1885, after an eminently se career, he withdrew from this busi ploy his large capital in industrial enterpring an early period a careful observer of p lio affairs, and especially of whatever on the industrial prosperity and progress of country, his interest in subjects of pol

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economy now found a larger field in which his own practical experience and theoretic studies could mutually guide each other. Originally a malous partisan of the idea that the principles d absolute free trade ought to be immediately and unconditionally applied in the foreign commerce of the United States, he presently came to the conviction that real free trade with forsign countries was impossible in the present state of American industry, and that a period of protection, by means of imposts on the importation of foreign manufactures, must first be me through with. In this view, free trade is the ideal toward which we ought to tend, and protection the indispensable means of arriving # it. Thus Mr. Carey is both a free trader and protectionist. His doctrine on this subject is, however, but incidental to his general system of political economy, or, as he prefers to call it in his latest publication, social science. His views will be more fully explained in the article Political Economy; their central principles are, briefly, that in the weakness of savage solation man is subject to nature, and that his noral and social progress are dependent on his ing nature to himself; that the land, es in itself, gains all its value from huor; that the primitive man, without and without science, of necessity begins sultivation upon the light, salubrious, and soils of sandy elevations, and gradually es to the subjugation of more fertile and vuit regions; that the real interests of classand individuals are essentially harmonious: at there is, in the normal condition of things, constant tendency to increase in the wages of bor, and to diminution in the rate, though to crease in the aggregate, of the profits of capital: d that the well-being and advancement of sociy correspond to the degrees of association and liberty which exist in it. His theory is thus, in me important respects, opposed to the ideas preiling among the majority of European econoists, Bastiat alone, of all prominent European riters on the subject, having defended the cory of general harmony against that of general tagonism.—The first book published by Mr. rey was his "Essay on the Rate of Wages, ith an Examination of the Causes of the Dif-

s the Causes of its Unsteadiness? and What the Remedy?" a pamphlet (1840); "The the Present, and the Future," 8vo, pp. (1848); "The Harmony of Interests" 850); "The Slave Trade, Domestic and reign: Why it Exists, and How it may be ttinguished;" "Letters on International pyright" (1853); "Letters to the Presit on the Foreign and Domestic Policy of

rence of the Condition of the Laboring Popu-

inciples of Political Economy," 8 vols. 8vo 887, '38, and '40). He next published "The

edit System in France, Great Britain, and the sited States" (1838); "Answers to the sestions, What Constitutes Currency? What

ion throughout the World" (1835). This was reproduced and expanded in "The

the Union, and its Effects, as exhibited in the Condition of the People and the States" (1858). For several years Mr. Carey also contributed the leading papers in "The Plough, the Loom, and the Anvil," a monthly periodical, some of which were afterward collected in his "Harmony of Interests." Through the whole period of his industrious authorship of books, he has also written much in some of the principal newspapers of the country, on subjects connected with his special study. He has now in course of publication a work entitled "Principles of Social Science," 8 vols. 8vo, of which the 1st and 2d were issued in 1858, and the 3d is to follow early in 1859. The principal of these works have been translated and published in Italian and Swedish.

CAREY, MATHEW, an American publisher and author, born in Dublin, Ireland, Jan. 28, 1760, died in Philadelphia Sept. 16, 1889. His father was a government contractor, who, having amassed a handsome fortune, bestowed upon his 5 sons a liberal education. When Mathew was 15 years of age, being allowed by his father to choose from a list of 35 trades his future occupation, he selected the business of printer and bookseller; and 2 years later began his career as an author by publishing a pamphlet on duelling, followed soon after by an address to the Irish Catholics on their oppression by the penal code, which was so inflammatory that its publication was suppressed, and the author avoided prosecution only by a flight to Paris. He remained there a year, during which he became acquainted with Dr. Franklin, then representing the United States at the court of Versailles, who gave him employment in his private printing office at Passy. After his return to Ireland he edited for a short time the "Freeman's Journal," and in 1788 established a new paper called the "Volunteer's Journal," which soon obtained a very extensive circulation consequent upon its bold and uncompromising advo-cacy of measures of the opposition, which led soon after to the recognition by Great Britain of the legislative independence of Ireland. One of its attacks on the parliament and ministry was followed in 1784 by an indictment for libel Carey was arraigned before the house of commons, and by sentence of that body committed to Newgate, where he remained till the adjournment of parliament. Other procedutions, however, were still hanging over him, and to avoid them he took the advice of his friends and embarked for Philadelphia, where he arrived Nov. 15, 1784. The account of his trial had preceded him, and Lafayette, who had formerly known him in Paris, now assisted him here. He was enabled to start the "Pennsylvania Herald" newspaper in Philadelphia, in about 2 months after his arrival there. This journal was the first in America to give accurate reports of legislative debate Carey being himself his own reporter. Its spirited conduct otherwise gave it a high reputation, but also involved its editor in a personal controversy. The result was that Carey fought a duel with

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Colonel Osborne, the editor of a rival journal, and received an injury which confined him to his house for more than 16 months. After this he attempted with several partners the publication of the "American Museum," a magazine continued with excellent ability, but little success, for 6 years. In 1791 he married, and began business as a bookseller, on a very humble scale. During the prevalence of the yellow fever, 2 years later, he was a member of the committee of health, and active in his study of the disease and attentions to the sick; and the results of his extensive observation were collected and published in his "History of the Yellow Fever of 1793," which passed through 4 editions. 1796 he was one of a few citizens who united under the direction of Bishop White in the formation of the first American Sunday-school society. In 1802 he published an edition in quarto of the Bible, and stereotyping not then having come into use, the entire volume was kept in type to supply the demand for reimpressions. At his suggestion also the booksellers and printers of the Union met in New York, to form an association similar to the book fairs of Germany. The plan did not succeed, but it was the germ of the subsequent trade sales. He engaged warmly in the discussions concerning the U.S. bank, writing articles for newspapers, publishing pamphlets of his own composition, and distributing them freely at his own expense. 1814 appeared his "Olive Branch, or Faults on both sides, Federal and Democratic," designed to harmonize the 2 furiously antagonistic parties of the country, pending the war with Great Britain. It passed through 10 editions, and is yet regarded as high authority in regard to the political history of that period. In 1818 he published his Vindicia Hibernica, an examination and refutation of the charges against his countrymen, made by British writers, in reference to the shocking butcheries alleged to have been committed by them in the rebellion of 1641. From this time forward he devoted himself almost exclusively to politico-commercial pur-suits, publishing in 1820 the "New Olive Branch," in which he endeavored to show how harmonious were the real interests of the various portions of society; and in 1822, "Essays on Political Economy." This, in turn, was followed by a series of tracts, extending to more than 2,000 pages. The object of all these publications was that of demonstrating the necessity for adopting the protective system, as the only means of promoting the real interests of all classes of the community, whether farmers, traders, or manufacturers. Enthusiastic in the prosecution of any work in which he allowed himself to become engaged, he devoted to the examination of this question all the powers of a vigorous mind, and thus contributed largely toward bringing about the change of public policy manifested in the passage of the tariff acts of 1824 and 1828. Highly public-spirited, he was active in the promotion of all the public

works of his city and his state, from the com-

mencement of his American career down as the inauguration of the system of internal inprovements, which led to the construction of the Pennsylvania canals. Eminently philathropic, he was ever active in the promotion of education, and in the formation of associations having for their object the relief of those who were unable to help themselves. Few men have lived more generally respected; few have died more generally regretted by the community in which they had lived and moved.

in which they had lived and moved.

CAREY, WILLIAM, a Baptist missionary and oriental scholar, born in Paulerspury, Northamptonshire, England, in 1761, died at Seran-pore, June 9, 1884. He was the founder in connection with other ministers, of the first Baptist missionary society. In 1793 he devoted himself personally to the missionary work, and embarked, accompanied by his wife and sister, for India. On his arrival, he fixed the scene of his labors at Mudnabatty, but was not permitted by the Indian government to make a permanent establishment there. He next removed to the Danish settlement of Serampore, where he established that large and successful missionary post of his denomination, which has been the theatre not only of his own labors and desth, but of the toils of Ward and Marshman, that distinguished oriental scholar, and English translator of Confucius. Carey became an unremitting student of the oriental languages, and lived to see 40 different oriental dialects become the channels of transmission for Christianity to as many tribes. In addition to these labors, he taught in the college of Fort William the Bengalco, Sanscrit, and Mahratta languages, and furnished to the Asiatic society, of which he was a member, many valuable papers on the natural history and botany of India. He brought the Scriptures within the reach of many millions of human beings.

CAREZ, JOSEPH, an eminent French prints, born in 1753 at Toul, died in 1801. He materially contributed to the progress of the st, being considered one of the inventors of the stereotype method. He was a member of the legislative assembly, and subsequently distinguished himself among the volunteers of 1752.

CARGILL, DONALD, a Scotch Presbyteria and Covenanter, and a leader of the Cameronians in and after the Sanquhar declaration, born in the parish of Rattray, Pertakin, about A. D. 1610, executed in Edinburgh July 27, 1681. He was educated at Abardea, entered the Scotch church, and was minister of Barony parish of Glasgow, some time after the division among the clergy in 1650, will the restoration of the English church by Charles II. in 1661, when he refused to accept collation from the archbishop, and to celebrate the king's birthday. He was banished beyond the Dy, but paid no attention to the act. In 1666 he was called before the council, and perceptainly commanded to depart. When indulgance was proclaimed to the Presbyterian ministers, he refused to accept it, and made a stand with

Bothwell Bridge against the royal hough severely wounded in that conompelled for a time to flee to Holland,

in in Scotland in 1680, and with med enthusiast named Hall, lurked een's Ferry for several months, eluding nce of the authorities, until June 8, were arrested, and Hall killed in the in the person of Hall was found the per known in the ecclesiastical histoand as the "Queen's Ferry Covenant." 2, with Cameron and others, he made s Sanguhar declaration. In the Sepllowing, after he had preached to a ion in the Torwood, between Falkirk ig, from "Is Christ divided," &c., he d excommunication against the king state dignitaries, because they had e supremacy of the pure church of

He was now excommunicated, and a on his head. In May, 1681, he was ed at Covington, Lanarkshire, and to Lanark on horseback with his feet the horse's belly. From Lanark he to Glasgow, and thence to Edinburgh, was hanged and beheaded for high

(Welsh carg, a load), the goods, se, or other effects which constitute of a ship. The lading within the led the inboard cargo, in distinction ; may carried on deck. The person by merchants to take charge of a to dispose of it is called a supercargo. so a Spanish and Italian word.

IL, ETIENNE DE, a Jesuit missionary Huron and Iroquois Indians in Canfirst visited these tribes in 1668, obomplete mastery of their languages, ded by the savages both as a saint of genius. The date of his death n, but he was still laboring with unactivity, though with little success, hen Charlevoix left Canada.

, an ancient country situated in the S. nity of Asia Minor, separated from ad Lydia by the mountains Messogis as. It was intersected by low moun-, which ran far out into the sea, and eral spacious bays. Its chief river was ler. The valleys between its mountain re fertile, producing corn, grapes, oil, The Carians, according to Herodotus, the aboriginal inhabitants of the rebranch of the Pelasgic race, origi-lin the islands of the Ægæan. When formed a navy, and subdued the es, he transplanted them to Asia Mifter times Greek colonies repelled the om their coasts, and built cities on nontories; while the Lydian kings, nd Crossus, subdued the inland counthe overthrow of the Lydian mon-Carians became subject to the Persian when the sceptre of the Persian was by passed under the sway of Alexander. Later their territory was successively annexed to the kingdom of Egypt and the kingdom of Syria. After the Romans had vanquished Antiochus, they gave Caria to the Rhodians and Attalus in reward of their fidelity and services as allies; and on the conclusion of the Mithridatic war, they ultimately annexed it to their proconsular province of Asia. The considerable cities of the country—Halicarnassus, Cnidus, and Miletus—were the work of Greeks, not of Carians. The Carians had the same religion as the Lydians and Mysians. Their language was of the Lydian stock, and accounted barbarous by the Greeks of historic times.

CARIACO, the largest of the Grenadine group of the Windward islands, being about 21 m. in circumference, situated in lat. 12° 80' N., long. 62° 80' W., between St. Vincent and Grenada, possessing 2 bays on the N. side, and

a town named Hillsborough.

OARIBBEAN SEA, that portion of the Atlantic lying between Cuba, St. Domingo, and Porto Rico on the N., Venezuela and New Granada on the S., the Lesser Antilles on the E., and Guatemala on the W., and communities with the mile of Moriac through a chancating with the gulf of Mexico through a channel about 120 m. wide, extending from the W. point of Cuba to the E. point of Yucatan.
CARIBBEE ISLANDS. See ANTILLES.

OARIBOU (tarandus rangifer, or cersus tarandus), the American reindeer. Of this ani-mal several varieties have lately been recognized. Concerning the reindeer Dr. J. E. Gray observes that it varies exceedingly in size. In the British museum there are specimens varying from 8 feet 5 inches to 4 feet 2 inches at the withers; but that distinction is very trifling in comparison to what really exists. Richardson observes that there are 2 well-marked permanent varieties of caribou that inhabit the fur countries; one of them, the woodland caribou, confined to the woody and more southern district, and the other, the barren ground caribou, retiring to the woods only in the winter, but passing the summer on the coast of the Arctic ocean, or on the barren grounds so often mentioned in his work. The large Siberian variety is ridden on by the Tungusians, and they also use them for draught, as the Lap-landers do the smaller variety. There is a large variety in Newfoundland, and throughout the British provinces of Nova Scotia and New Brunswick, which have extraordinarily large and heavy horns. It is observed by Dr. Gray, quoted above, that the horns of the Newfoundland variety, some of which are preserved in the British museum, greatly resemble those of the Siberian animal; but Pallas observes that the American species differ from the former in the structure of the hoof, and are absolutely American animals. The tame reindeer of the Laplanders is, according to Hoffberg, at the end of his back an ell and a half high, and his length, from horns to tail, is 2 ells, while from the navel to the backbone he measures a of an ell. If these ells are to be understood

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s measures of an English yard, the estimate is immensely exaggerated, since the animals in the English zoological institution, and elsewhere exhibited, do not approach that size, which is fully equal to that of the great American deer, called elk in the west, the wapiti of the Indians; while the true reindeer of domestication does not exceed the English red deer, if it equals it, in size. On casting his coat, the hair of the reindeer is brownish yellow, but, as the dog days approach, it becomes whiter, until it is at last almost entirely white; this, it must be observed, is spoken of the domesticated animal. Round the eye the color is always black. The longest hair is under the neck. The mouth, tail, and parts near the latter, are white, and the feet, at the insertion of the hoof, are surrounded with a white ring. The hair of the body is so thick that the skin cannot be seen when it is put aside, for it stands erect, as in other animals of the same genus, but is much thicker. When the hair is cast, it does not come away with the root, but breaks at the base. The horns are cylindrical, with a short branch behind, compressed at the top, and palmated with many segments, beginning to curve back in the middle, and are an ell and a quarter long. A single branch sometimes, but seldom two, springs from each horn in front, very near the base, frequently equalling the length of the head, compressed at the top and branched. The distance between the tips equals the length. This description, both of the horns and colors, differs in every respect from the wild caribou of North America. color of that animal is, in the summer, a rich, glossy, reddish brown, becoming more grizzly, especially about the head, neck, and belly, to-ward the winter; but it never becomes any thing approaching to white. The antiers of the woodland caribou, on rising from the head, curve backward and then forward in a segment of, perhaps, the 6th of a circle for about half their length, or somewhat less; then curve backward again, and again forward, making in the upper sweep nearly a semicircle. have no backward branch or spur whatever, except one short point close to the tip. The main branch of the antlers is cylindrical, much smoother than those of the red deer or wapiti, and at the upper extremity has 2, 3, or 4, but seldom more than 2, sharp cylindrical spikes. That, however, which constitutes the main difference between the antiers of this animal and of the tame reindeer, or, indeed, of any other of the deer tribe, is this: that while on the upper extremities of the horns are rounded spikes, the lower branches are broad palmated surfaces. The lower of these, or brow antler, which is the principal defensive weapon of the animal curves downward over the eyes, and is several inches in breadth, with many sharp spurs, or points, round the lower border. The second, or superior process, which shoots horizontally forward from the point where the two curvatures of the main antler meet, is longer than

the lower or brow antier, and I were more so than it really is, for the lower or brow a line in which it projects, instead flected downward. The forward brow antier, the sur-antier, and the to or extremities of the whole, are as possible in a right line. The me a medium-sized set of antiers, from New land, in the possession of the writer, is as lows: extreme width from tip to tip, I is 41 inches; length of the exterior curve from root to tip, 2 feet 34 inches; dire height 28 inches; girth at the root of the antier 54 inches; at the insertion of the upprong 4 inches; length of palmated brow and the state of th 11 inches, breadth 8 inches, processes 7 in a ber; length of the sur-antier 12 inches, brea 8 inches, processes 8 in number, very stres sharp. The prongs of the upper extremity are irregular, one antier having 8, the other 5 points. The caribou has a short tail, like the scut of a hare or rabbit, and entirely differ from the long flag of the red deer or wa The hoofs have an immense spread owing the extension of the cleft of the boof thre the cornet, and far up the pastern of the a mal, which gives it, when running over a snow, or, what is worse, over a crusted me a support almost equal to that of a snow-The average weight of the woodland caribe i from 250 to 800 lbs., that of the barres grown caribou from 90 to 180 lbs.; those of 8; gen and Melville island do not exceed 125 ha The reindeer of Norway and Sweden are d utive as compared with those of Finland and Lapland, which again yield to those of Spitz-bergen, which last are not half the size of the woodland caribou of North America. It wil probably appear, on further investigation, the there are at least half a dozen distinct varieti of this curious animal; as it is wholly s alous that the domesticated species should h fallen off in size, the universal tendency domestication and culture being to incre size of all animals, and to produce diversity variegation of color.—The reindeer of La in domestication, feeds wholly on a species of lichen, peculiar to the country he inhabits, for which he roots under the snow with his after the fashion of swine. He will cat no d fodder, unless it be, perhaps, the river hone equisetum fluviatile. To the Laplands reindeer is invaluable, being in fact his sheep, and his horse, in one animal. too valuable to kill, in general, althouse meat is delicious; but the milk of the her principal support of the owner and his i while, as an animal of draught, its sp durance, and its particular adaptation to t elling on snow, render it the most value or one might say indispensable, of en to men dwelling in the high from le The ordinary weight drawn by this brave is animal is 240 lbs., but he can travel with it Their speed would be incredible if it were in attested beyond the possibility of dealt. In

of 8 in light sledges, started by Pictet in when he went north to observe the transor Venus, the 1st performed 3,089 feet 8 19.6 thes in 2 minutes, being at the rate of nearly miles in the hour; the 2d went over the and in 3 minutes, and the 3d in 3 minutes d 26 seconds. The endurance, however, of a reindeer exceeds its speed, which has been sly outdone by the American trotting horse. Is not unusual, it is credibly recorded, for the ser to do journeys of 150 miles in 19 hours; the portrait of one is preserved in the palace that the server of the server of

es in 48 hours, conveying an officer to important despatches, and dropped dead ben the astonishing feat was accomplished. To the natives of North America, the reindeer known only as an animal of chase, but it is most important one; there is hardly a part of e animal which is not made available to some eful purpose. Clothing made of the skin is, wording to Dr. Richardson, so impervious to cold, that, with the addition of a blanket same material, any one so clothed may Your on the snow with safety, in the most tense cold of an arctic winter's night. The mison, when in high condition, has several thes of fat on the haunches (a state of things ery unusual in the American deer, cerous Virmianus, which, although a highly flavored est, is usually lean and dry), and is said equal the venison of the best fallow deer of e English parks. The geographical range of e caribou is over all the northern parts of Eu-Pe, Africa, and America; and it is observed Mr. Bennet, that they are spread abundantly er all the habitable parts of the arctic rens, and neighboring countries, extending in new continent to a much lower latitude than the old, and passing still further south on all principal mountain chains. In America the thern limit of the reindeer appears to be ut the parallel of Quebec, across the whole tinent; but the animal is most abundant been 63° and 66° N. lat. It has been found, this is probably accidental, in that singular untain region known as the Adirondac Highda, in the north-eastern part of the state of w York, within 50 miles of Albany. CARIBS, or Caribbees, an aboriginal tribe

South America, originally in possession of ler West India islands between Porto and the gulf of Paria. They were comed to leave the islands after the arrival of Europeans. A small number of them are found in Trinidad, Dominica, and St. Vint. The race is also found on the shores of tral America and on the South American tinent, along the lower Orinoco and the oni.

ARICA, a remarkable tree found in the torregions of America and Asia, and classed the natural family of the cucurbitaces. It ws to the height of 20 feet, and bears a yelmelon-like fruit called the papaw, which is an with sugar or salt and either raw or cooked. Its milky juice forms a cosmetic, and also keeps worms away from the tree. The leaves are employed as a substitute for soap, and ropes and webs are prepared from the bark. It is said, also, that the flesh of animals which are fed upon the papaw is peculiarly tender.

CARIGNANO, a town of Piedmont, remark-

CARIGNANO, a town of Piedmont, remarkable for its manufactures of silk twist and confectionery. Carignano gives the title of prince to the present royal house of Savoy. Pop.

7,873.

CARILLO, BRAULIO, a Costa Rica statesman, born in 1800 at Cartago, was assassinated in 1845. He was a member of the federal congress of Central America, and afterward elected governor of Costa Rica, of which state from 1838 to 1842 he was dictator. His dictatorship, although absolute, was of advantage to Costa Rica; for while he repressed all revolutionary tendencies with a strong hand. he devoted the energies of an active mind to the advancement of the material interests of the state. He adjusted its foreign debt, built roads and bridges, and above all, introduced the cultivation of coffee, which has now become the great staple of the country, and has raised it from the poorest to be the richest state of Central America. As dictator, Carillo dispensed with ministers of state, transacting all of its public affairs in person, with only the assistance of his wife.

CARIMATA, an island of the Malay archipelago, lying off the S. W. coast of Borneo. Its N. extremity is in lat. 1° 33′ S., long. 108° 49′ E.; area 153 sq. m. It has no permanent population, but is resorted to by the Bajans or Malay sea gypsies, for the purpose of collecting tripang, tortoise shell, and edible birds' nests. It has several prominent mountain peaks, one 2,000 feet above the level of the sea. Between this island and Billiton is the Carimata passage, a route for large ships during the S. E. monsoon.

CARIMON, GREAT AND LITTLE, 2 islands of the Malay archipelago, situated at the E. extremity of the straits of Malacca, a few m. 8. of Singapore. The larger has area 72 sq. m., the smaller about 5 sq. m.; the former has a scanty population of about 500 Malay fishermen, and the latter is uninhabited. Roth islands have a very sterile soil; but are supposed to be rich in tin ore, some fine specimens of which have been recently found upon Little Carimon. According to stipulations in the convention of 1824 between Great Britain and Holland, the Dutch claim paramount sovereignty over these islands.

CARINI, a Sicilian town, pop. 7,000, in the province of Palermo, and 12 m. W. of that city. It is beautifully situated on a small river of the same name, and has a fine old Gothic castle. Near Carini are the ruins of the ancient Hyccara, the birth-place of the courtesan Lais.

CARINTHIA, or KÄRNTHEN, a small duchy of Austria, forming part of the government of Laybach, in the kingdom of Illyria. It is a mountainous tract of country, divided since

1849 into 7 circles. Klagenfurth is the capital, where the diet of Carinthia is held, which is composed of 30 members. The Drave is its principal river, and the Klagenfurth or Worth-See the only considerable lake. There are some manufactures, and there is a considerable trade in grain and cattle in Carinthia, but the principal wealth of the country is mineral, the great lead mines of Austria being located here. Area, 3,984 sq. m. Pop. 346,150, of whom 18,000 are Protestants, and the rest Catholics

CARINUS, MARCUS AURELIUS, the elder of the 2 sons of the Roman emperor Carus, who conjointly succeeded to the throne on the death of their father, A. D. 284. His brother was supposed to have been murdered on his return from the East, and Carinus, ruling alone, became one of the most profligate and The soldiers cruel of the Roman emperors. having rebelled, and proclaimed Diocletian, Carinus collected the troops that were in Italy and marched into Mesia to meet Dio-cletian, and quell the revolt. A decisive battle was fought near Margus, in which Carinus gained the victory, but in the moment of triumph he was slain by one of his own officers, whom the vices of the emperor had outraged.

CARIPE, a town and valley of Venezuela, in South America, 40 m. S. E. from Cumana. The valley is noted for a cavern frequented by a species of night-hawk (caprimulgus), the young of which are annually destroyed in great numbers for the sake of their fat, of which excellent oil is made. The cave is of limestone formation, 2,800 feet deep, and for some distance 60 to 70 feet high. Humboldt visited and described this cavern. The town is the principal station of the Chayme Indian missions.

CARISBROOKE, an agricultural village, once a thriving market town, of the isle of Wight, co. of Southampton, England, situated at the foot of a hill, near the centre of the island, in a parish of its own name, 11 m. S. of Newport. Pop. of parish in 1851, 6,712. Under the independent lords of Wight it was the capital of the island, and afterward became the residence of the governor, who occupied a handsome mansion within the precincts of a ruined castle of great antiquity, crowning the hill back of the village. This castle is supposed to have been founded before the Roman invasion; was taken by Cerdic, the Saxon, in 580; enlarged by William Fitzosborne, a relative of William the Conqueror, and first lord of Wight, in the 11th century, and after many additions completed in the time of Elizabeth, when it covered an area of 20 acres. It was the place of confinement of Charles I. after his removal from Hampton Court, and a window is pointed out by which the royal captive made a fruitless attempt to escape. After his execution it became the prison of his 2 youngest children, the duke of Gloucester and the princess Elizabeth, the latter of whom died here. A ruined Cistercian priory, founded by

Fitzosborne, occupies an eminence the castle. The priory church is now p and the other remaining portions are as sheds and stables. The village infant school and several chapels for ers. The parish contains infantry house of industry for the whole islam arranged juvenile reformatory, and a corn mills on the Medina river.

CARISSIMI, GIOVANNI GIACOMO, 8 composer, born at Venice in 1582, very advanced age. He was living He was for a number of years direct pontifical chapel at Rome, and at his an enormous number of composition ing mostly of oratorios, masses, and but a small proportion of which were lished. We are indebted to Carissiz chestral accompaniments to sacre and for great improvements in the He was also one of the first to write His melodies are distinguished by g spirit, and his harmony is wonderfully His style, perfected by his pupils, Br Bassani, and Scarlatti, is conside foundation of the music of the 18th ce

CARLEE, or KARLEE, a village of stan, in the collectorate of Poonali, p of Bombay, 40 m. E. of Bombay. It i able for a Buddhist cave-temple, he the face of a precipice, about \$\frac{1}{2}\$ of up a steep hill, which rises 800 fe the plain. A noble arch spans the the excavation, and on each side of a screen work, covered with naked female figures carved in alto-rilievo. are 8 lions placed back to back, on th pillar; around the portico are several cuted figures of elephants of great surmounted by a mohout and a how taining 2 persons. The length of the 130 feet, and its width 40 feet. It has . t row of sculptured pill semicircle, and with its h unlike the interior of a Goung cathed it are several smaller excavations, ly intended as cells for monks or These are much dilapidated, but the in good preservation. The only objec-tion to be seen is the mystical ch umbrella.

CARLEN, EMILIA SCHMIDT, a Swiist, born in Stockholm, 1810. Her film was not a happy one. In 1841 she wa to her second husband, G. Carlen, a novelist. She was 28 years ilished her first novel, "Wald 1851, an interval of only 13 ready published her 22d work. volumes. Her subjects are usually sele the lower ranks of society, and l are more nearly transcripts of forts of the imagination. Some have been translated into English in this country.
CARLETON, an castern o

area 898 sq. m.; pop. 31,897. It is
d by a railroad extending from Prescott
est. Lawrence to Bytown on the Ottawa.
LETON, Sie Guy, Lord Dorchester, a
i general, born in Ireland in 1724, died in
He distinguished himself at the sieges
irg, Quebec, and Belle Isle, and was
eu in 1762, at the siege of Havana. In
he was made governor of Quebec. On
nomination of Burgoyne to the command,
w up his commission, but was appointed
year lieutenant-general, and succeeded
V Clinton as commander-in-chief in the
colonies.

vough, with only a few shillings in his and after struggling a number of years or the Irish Peasantry." This was folly of the Irish Peasantry." This was folligh partisan character.

anglish partisan character.

economist and antiquary, born at Capo n April, 1720, died in Milan, Feb. 22, . in 1744 he was appointed by the senate Venice to the professorship of astronomy navigation in the university of Padua, and at the head of the Venetian navy. Afably discharging the duties of these offices 17 veers, he resigned them in order to devote entirely to his favorite studies. In 1754 ushed the first volume of his great work puntical economy, Delle monete, e dell' in-itusione delle zecche d'Italia, in 7 large vols. In 1765 Leopold, duke of Tuscany, ad him at the head of the council of public my, and of the board of public instruc-He was, however, relieved from the labors pertaining to these offices several years before death, though still retaining the emoluents accruing from them. During the leisure hich the generosity of his patron thus afforded

he completed and published at Milan in 5
4to his Antichità Italiche, a work on
userary and artistic antiquities of his coun, which has been much eulogized by Italian
itics.

CARLI, Denis, a Catholic missionary, born io. was sent in 1666 to Congo by the on of the propaganda, with father angelo Guattini and 14 other friars. In could not long endure the heat the manate and the fatigues of the missionary and the fatigues of the missionary and the cumate and the fatigues of the missionary. Carli, after bearing up for a long time is severe malady, was obliged to return which was translated into French, English, German.

ARLIN, THOMAS, one of the pioneers in is, and a governor of that state, born in

Kentucky in 1790, died Feb. 2, 1852. removed to Illinois in 1818, and gradually accumulated wealth, and became known and respected among the scattered population about him. He was elected governor in 1888, and retained that office for 4 years, during a period of unusual and violent political excitement. Illinois, having engaged largely in internal improvements, suffered severely from the commercial revulsion which was then paralyzing the whole country. She was much in debt, and had within her borders no specie, and no available means of payment. The discussion of the slavery question, too, was then furious, and had just led to the tragic death of E. P. Lovejoy. At the same time the Mormons took up their position at Nauvoo, and politicians were beginning those movements for partisan ends, which seemed likely to throw the state into anarchy, and which ended ere long in the violent death of the Mormon leader. That Gov. Carlin, amid such a condition of affairs, was 8 times reelected to the chief magistracy, affords a sure indication both of his popularity and his force of character.

CARLINA, a name given to a common genus of the thistle, from a tradition that its root was shown by an angel to Charlemagne, as a remedy for the plague which prevailed in his army. The carline thistle is found on dry sunny hills in most of the countries of Europe. Several

species of it are mentioned in botany.

CARLINO, CARLO ANTONIO BERTINAZZI, a celebrated harlequin, born at Turin, 1713, died 1788. He entered the Sardinian army at an early age, but at the death of his father, who was an officer, he quitted the service, and taught fencing and dancing. His favorite occupation, however, was playing comedy with his pupils, and his success in it suggested the idea of making it a profession. At this time the harlequin of the Bologna theatre ran away from his creditors, leaving the manager in great perplexity. Bertinazzi undertook at a moment's notice to act in his place, and the public did not suspect the substitution until the 4th performance. His success in Italy was so great that, in 1741, he was invited to Paris, and succeeded there. He had a remarkable faculty of dramatic improvisations.

CARLISLE, the capital of Cumberland co., Pa., on the Cumberland Valley railroad, is a handsome town situated in the great limestone valley enclosed between the Kittatinny and South mountains. The surrounding country is level, productive, and highly cultivated. The town is well built, with wide and spacious streets, a public square, on which stand the county buildings, and public edifices of a superior order. Dickinson college, in this place, founded in 1788, and now under the care of the Methodists, is one of the oldest and most flourishing institutions in the state. There are 11 churches, 4 newspaper offices, a town hall, market-house, bank, and young ladies' seminary. Half a mile from the village are a school for cavalry practice, and barracks for 2,000 men,

built in 1777, chiefly by Hessian troops made prisoners at Trenton. Four miles N., in a valley of the Blue mountains, are Carlisle sulphur springs, a pleasant summer resort. During the whiskey insurrection, in 1794, Gen. Washington had his head-quarters at Carlisle, and a few years previous Major André passed some time here as a prisoner of war. Pop. in 1854, about 6,000.

CARLISLE (anc. Luguvallio or Luguvallum), the county town of Cumberland, England; pop. in 1851, 26,583; 800 miles N. N. W. of London, by railway. It is situated on the river Eden, and is a handsome town, owing to the improvements of late years. There are a custom-house, a newsroom, a market, and a handsome railway station. A fine 5-arch bridge has been built over the Eden. There are several institutions for benev-The cathedral church is a olent purposes. structure of the middle ages, not remarkable for size or beauty. There are 4 other churches, several chapels, an endowed grammar-school, British, national, and infant schools, 2 literary institutions, a mechanics' institute, a library, and a savings bank. The castle was built by the Normans in 1092, and many parts of it are in excellent preservation. It is still used as a garrison fortress. The city is one of the oldest in England, and was a Roman station. Its proximity to the border made it important as a military station in the border wars between the English and Scotch. In the civil wars Carlisle sided with the king, and it declared for the pretender in 1745. The inhabitants are principally employed in manufactories of cotton goods and ginghams, founderies, hat factories, and dye works. It is connected with the Solway frith by a canal which gives it a share of the coasting trade. It gives the title of earl to the Howard family, and is a bishop's see. The municipal overnment is administered by 10 aldermen and thirty councillors. It returns 2 members to parliament, and is the centre of a poor-law union.

CARLISILE, SIE ANTHONY, an English surgeon and physiologist, born at Durham, 1768, died in 1840. He was surgeon of Westminster hospital for 47 years, and was knighted by George IV. He was the first to introduce the practice of holding public consultations in cases requiring operation; and also to substitute the straight-bladed amputating knife for the crooked one of former days. His chief work is his "Resay on the Disorders of Old Age."

CARLISLE, FREDERIC HOWARD, 5th earl of, a British statesman, born in May, 1748, died Sept. 4, 1825. In the house of peers he first distinguished himself by his recommendation of conciliatory measures toward the American colonies. He was one of the 3 commissioners appointed by George III. to visit America, and endeavor to restore peace. Accompanied by Gov. Johnstone and Mr. Eden, he set sail in 1778. The mission was unsuccessful in its main object, owing to the settled determination of the colonists to effect their entire separation

from the he was vi lord privy of Pitt in 1-II. upon Turkey, a opposition to Pitt. against the Fr partisan of the posed the enac He published in 1001 of Frederic, Earl of commends in the "He in "English Bards and sootch launches a sarc 3 couplet who had uncle and g offended h the house or sut V. Howard, 7th & of (the preceding, b Apru 18. Oct. 7, 1848, pre-he had travelled rhi He was a long bassy at St. Petersuurg. Int of commons he represented t Yorkshire, and under the was secretary of state for an was defeated in the West R vative opponents. In 1846. Rı tration of Lord Jo commissioner of wo cellor of the duchy on a first of the whig noblemen or to give in his adhesion to the corn law league. In 1856 he the mechanics' i tute at] since published m and writings of Pope, a Previous to the late a tour in the east of E "Diary in Turkish the accession of Lord was nominated lord lieute office he held till the remerston ministry in 1856. A ventitled "The Second V published in July, 1858.

CARLOCK, a kind of isingless, made of the sturgeon's bladder, and used chiefly for classicing wine. It is imported from Russia,

CARLOS, Dox. I. Infante of Spain, on a Philip II., born at Valladolid, July 3, 1848, dai July 25, 1568, in prison at Madrid, and we buried in the nunnery of the Dominion event El Real. His mother, Maria of Pustupidied 4 days after having given him him. He was sickly, and as he grew up, was siject to violent bursts of passion, which he father hoped would be subdued by the displine of the university at Alcala. But set the throne, and in 1563 his cousins, the subdukes Rudolf and Ernest, were appointed in his stead presumptive heirs to the cours. When Alva was appointed in 1567 governer of Flanders—a post to which Don Carlos had appired—the infante's exapparation led him to pine

his father, and to perpetrate

Don Juan, in consequence
he to put under arrest, Jan. 18,
subsequently transferred to the prison
died. His death as well as his life
o many conflicting rumors. The inof temper between a rigid, ironu like Don Philip, and a morbid,
youth like Don Carlos, the fact that
e had been engaged to Elizabeth of
rho subsequently became his stepis sympathy with the revolt of the
and his hatred of Alva and the

rs of his father, all conspired to melancholy fate of the infante with a smance, which has been poetically y Alfieri, Campistron, Otway, and d above all by Schiller. II. Carnosobe, pretender to the crown of Spain, ing Charles IV., born March 29, in Trieste, March 10, 1855. Many ponents of the constitutional régime restored in 1820, gathered around a hoping that, after the decease of his rother Ferdinand VII., he would e throne. But these hopes were by Ferdinand's marriage with Maria and by the abrogation of the Salic h placed Isabel upon the throne. When Ferdinand was supposed to eve of death, the Carlists succeeded ng from him a decree reëstablishing law, and thus excluding Isabel; but red his health, and the fraud prac-

him was immediately redressed.

will Ferdinand died, Don Carlos
I himself king. Maria Christina, the
anded him as a rebel, and concluded
ain, France, and Portugal, the sodruple alliance, the practical effect of
is to expel Don Carlos and Don
he champions of absolutism, from
I Portugal. On July 1, 1834, Don
ft England, whither he had fled,
dling himself into Spain, succeeded in
civil war in the northern provinces,
ed for several years, Don Carlos eludgilance of his opponents until 1839,
was compelled to leave the Spanish
and to betake himself to France,
on his refusal to renounce his claims,
y order of the French government,
t Bourges. The decree which ordained

l expulsion from Spain was, by rote, confirmed by the cortes in 1836. In adopted the name of count of Moated in favor of his eldest son the count nolin, and on receiving permission France, took up his abode in Austria. It wife was Maria Francisca de Assis, of King John VI. of Portugal, who bore as, Don Carlos in 1818, Don Juan Carl, and Don Fernando in 1824. His 26 m he married in 1838, and who survive Maria Theress, infants of Portugal and of Beira, widow of the infante Permission of Portugal and the survive of the infante Permission of Portugal and the survive of the infante Permission of Portugal and the survive of the infante Permission of Portugal and the survive of the infante Permission of Portugal and the survive of the infante Permission of Portugal and the survive of the infante Permission of Portugal and the survive of the infante Permission of Portugal and the survive of the infante Permission of Portugal and the survive of the infante Permission of Portugal and the survive of the infante Permission of Portugal and the survive of the infante Permission of Permission

dro, of Spain, and mother of the infante Sebastian of Portugal. III. Carlos Luis Maria Frenando, the eldest son and heir of Don Carlos the pretender, born Jan. 81, 1818. In 1846 he left Bourges, where he had resided with his father, and took up his abode in England under the name of the count of Montemolin. In April, 1849, he made an attempt to introduce himself in disguise into Spain, but he was arrested, detained from April 5 to the 10th in the citadel of Perpignan, and on April 15 he was again in London. On July 10, 1850, he married Maria Carolina Ferdinanda, a sister of the present king Ferdinand II. of Naples.

CARLOVINGIANS, or CAROLINGIAMS, an illustrious imperial family who, during the 9th and 10th centuries, gave sovereigns to Germany, France, and Italy. Their origin is traced back to Arnulf and Pepin of Landen, 2 powerful Frankish lords of Austrasia in the beginning of the 7th century, while they derived their name from Charles Martel, the conqueror of the Saracens at the battle of Poitiers, in 782. This hero, the son of Pepin of Heristal, was the founder of the greatness of his house. Satisfied with the titles of duke of the Franks and mayor of the palace, under the weak Merovingian kings, he ruled with an absolute power the Frankish kingdoms of Austrasia, Nenstria, and Burgundy. His son, Pepin the Short, cunfining within the walls of a convent the last of those kings, Childeric III., assumed the royal title, and his grandson, Charles, afterward known as Charlemagne, having extended his conquests as far as the Garigliano on the S. the Oder on the N., and the Carpathian mountains and the Theiss on the E., restored the western Roman empire, and consequently styled himself emperor. This Carlovingian empire, consisting of a motley assemblage of nations brought together by conquest and decidedly hostile to each other, could not long outlive its founder; it began indeed to totter on his death, and then gradually fell into ruins. Its final disruption, taking place in 888, was followed by no less than 9 separate kingdoms; the most important of which, Germany, France, and Italy, continued for a while under the sway of the descendants of Charlemagne. We subjoin a list of the sovereigns of this family: Expres-ORS. Charlemagne, 800-814; Louis the Weak, or Débonnaire, 814-840; Lothaire, 840-855; Louis II., son of Lothaire, 855-876; Charles the Bald of France, 875-877; Charles the Fat of Germany, 881-887. This was the last of the actual emperors of the Carlovingian dynasty; but several princes, most of them in the feminine line, Guy of Spoleto, Lambert, Arnulf of Carinthia, Louis and Berenger of Italy, boasted of the empty title.—Kirca or Gra-MANY. Oharlemagne and Louis the Weak were followed by Louis the German, 840-876; Louis the Younger or of Saxony, 676-882; Charles the Fat, 882-887; Arnulf of Carinthia, 887-899; Louis the Child, 899-911. To the extinct house of Charlemagne those of Saxony and

Franconia succeeded.—Kings of France. The Carlovingians here are styled the 2d race of the merer, 877-879; Louis III. and Carloman, 879-884; Charles the Fat of Germany, 884-887; Charles III., the Simple, 893-923; Louis IV., D'Outremer (ultramarinus), 936-954; Lothaire, 954-986; Louis V., the Idle, 986-987. On the death of this prince, Hugh Capet was elected king by the nation, to the exclusion of the law-ful heir, Charles, duke of Lorraine, the uncle of Louis V. Hugh was the head of the 3d dynasty, called after him Capetians.—Kings or ITALY. Charlemagne, 774-781; Pepin, his son, 781-812; Bernard, 812-818; Louis the Débonnaire of France, 818-820; Lothaire, 820-855; Louis II., 855-875; Charles the Bald of France, 875-877; Charles the Fat of Germany, 879-881; Guy of Spoleto, 881-888; Berenger, 888-894 and 905-924; Lambert, 894-900; Louis, 900-905; Hugh of Provence, 926-947; Lothaire, 945-950; Berenger II. and Adalbert, 950-961. On the death of Adalbert, the kingdom of Italy was united by Otho the Great to the German empire.

CARLOVITZ, CARLOVICZ, or CARLOVITZA, a military frontier town or captaincy of Austrian Slavonia, pop. about 5,800, in the district of Poterwardein, with a cathedral, 3 churches, a Greek seminary, a lyceum, a Roman Catholic academy, a brisk transit trade and fisheries, an extensive export trade in wormwood and wine, the quantity of the latter exported in some years amounting to 1,800,000 gallons. The great wine mountain in the vicinity of Carlovitz yields the best and strongest qualities of Hungarian wines. The Carlovitz red wines are especially renowned. The town is the see of a Greek archbishop—the only Greek prelate of that rank within the Austrian dominions. A peace was concluded here in 1699, for the term of 25 years, between Austria, Poland, Russia, Venice, and Turkey, by the mediation of England and the Netherlands. By the terms of this treaty, the emperor of Austria received Transvivania and Bacska; Russia, Azof; Poland received back Podolia, the Ukraine, and Kamieniec, but ceded some Moldavian towns. Venice retained the Morea, and Turkey remained in possession of Temesvar. During the revolutionary era of 1848-49, Carlovitz was the focus of the Servian rebellion against Hungary, and the theatre of collision between the Servians and the Magyars, and at a later period between the Hungarians and Austrians

CARLOW (anc. Catherlogh), a county in the province of Leinster, Ircland; area, 846 sq. m.; pop. in 1851, 68,075. It is level except on the S., where the Blackstairs and Mt. Leinster ranges give a rugged character to the district. The rivers are the Slaney and the Barrow. Carlow is of granite formation, covered in the

plains by be the emin stairs. It character and proudos of the county there are 1 tivated, and cereals, ro grown luxuriantly. The is, from its central position with that of the English course struggles to recover their 1798 Carlow was the seat of 1 ments. The present con tion is much improved by the present ample of the proprietors, and the is seen in the skilful and productive of the land. The antiquities are t and the cathedral at Old Leighlin, a the Butlers at Clonmore, in fine pres and several other remains in vi of the county. The towns are low, and Bagnalstown. There are schools, attended by 6,900 pupils or Dou -Carlow, a parliamentary boro parish, and capital of the above-de ty, 56 m. S. W. from Dublin by of borough, 10,292. The town confluence of the Burren when TAT: The principal edifices are a fine c gaol, a parish church, a Roman (dral and college, 2 nunneries, a infirmary, hospital, work-house 2 bridges. There are several tional schools. The pop gaged in the provision e. eral flour mills, and it is an impos for agricultural produce of the cocastle, of which the remains are built in the 12th century, was the town, which was made a born

CARLSBAD, a Bohemian tor m. of Prague, famous as a wateri. takes its name from the emperor who, in the middle of the 14 was the first to avail himself of power of the springs, and whose the market place. Next to Cl. greatest benefactor of the ton nobleman, the earl of Findla who laid out some beautiful ı b lisk in his honor was erected forest adjoining the town. Excussion quently made to this spot and to ing mountains. Many eminent land, Berzelius, Friedrich H Werner, and, above all, Goutum, and frequenters of the place. The chief ingreof the springs are sulphate of soda, car of sods, and common salt; and the prisprings are the Strudel, Muhlbrunnen Schlossbrunnen, having respectively a tenture of 165°, 138°, 147°, and 133° P. waters are efficacions in liver and hi diseases, and in a variety of other cou After the termination of the Carlebed sesses many of the visitors resort to the waters Teplitz, Franzensbad, Ischl, &c. Since 1844, of the springs are exported to diss, without being deteriorated by the In 1858, a new spring was discovered unnl, containing carbonic and phosde of iron.—In August, 1819, a minngress was convened at Carlsbad by in powers, principally with a view of he seditious spirit which at that time manifested itself at the universities g the turners. The assassination of by Sand afforded a pretext to the overnments to carry out their long-designs; and by the decrees proat Carlsbad on Sept. 20, 1819, henschaften, or political unions of its, were declared illegal, the press d, and other stringent restrictive Lopted. On April 2, 1848, however, ees, as far as they had been approved erman diet, were rescinded by that

BURG, or Karlsburg, a fortified Transylvania, S. of Klausenburg; it 12,000. It contains many fine fices, among which the citadel, the the bishops of Transylvania, the tholic cathedral, and the gymnasium larly worthy of note. A considerable the inhabitants consists of Jews, who peculiar privileges.

CRONA, a maritime province of ounded S. and E. by the Baltic, W. by tadt, and N. and N. E. by the provexio and Kalmar; area 1,185 sq. m.; 55, 111,255.—The capital of the above of the same name, stands at the southnity of Sweden, on 5 small islands, connected with each other and with and by numerous bridges, and is the tation of the Swedish navy. The town fortified, and has a safe and capacious nich has everywhere sufficient depth or the largest vessels. The houses uilt, though wood is very much used onstruction. Carlserona has an exaval arsenal and dockyard, from separated by a wall. Its principal re the council-house, the prefect's the public schools, and the churches. nanufactures are naval equipments, hs, tobacco, and refined sugar. As rt of Gothenburg, it carries on a export trade in metals, potash, Baltic produce. Pop. in 1855, 14,-

HAMN, a fortified seaport town of n the Baltic; pop. in 1855, 5,214. It ilt, has a small but secure harbor, a et-place, a town-house, two churches, factories, and an active trade in iron, tash, pitch, and tar.

tash, pitch, and tar.
RUHE, capital of the grand duchy and of the circle of Middle Rhine, ated plain of the Hartz Forest, within e Rhine, 39 m. of Stuttgart, and an a of Baden-Baden, and on the railway

line between Mannheim and Basel; pop. in 1855, 25,160. The town was built around a hunting seat erected in 1715 by Charles William, margrave of Baden, whose remains are interred beneath the pyramid dedicated to his memory upon the market-place. Carlsruhe was designed in the form of an extended fan round the grand-ducal palace, from which, as a centre, 32 public avenues radiate, 17 of which, forming the principal streets, have been built on both sides. The new theatre and the academy are the finest buildings of Carlsruhe. The palace, erected in 1751 on the site of the old structure, presents nothing remarkable except the Bleythurm (lead tower), which affords a fine view over the city and surrounding country. Of the public squares, the palace and market squares are the most beautiful. The educational institutions of Carlsruhe are remarkable, especially the polytechnic institute, which is attended by many pupils from distant countries. The lyceum, the seminary for teachers, the military academy, the academy of design, painting, and engraving, the cabinet of natural history, the gallery of engravings, the grand-ducal archaeological cabinet and that of medals, the court library with 80,000 volumes—all these afford evidences of the excellent arrangements which exist at Carlsruhe for the promotion of knowledge. The fine public parks which are thrown open to the people, and the trees planted in the squares, constitute the chief beauties of the place. There are several palaces belonging to the Baden nobility, and not less than 90 public buildings, including the churches, the mint, the school-houses, the hospitals, &c., or about 1 public building for every 880 inhabitants. Among the hospitals is one endowed with \$44,000 by the celebrated London tailor Stults, who was a native of Baden, and whose munificence has been rewarded by the grand duke with the title of baron. Two-thirds of the inhabitants are Protestants, the remainder Catholics and Jews. The new Protestant church, built in 1807, is a noble Roman structure. The synagogue is in oriental style, and the new Catholic church has a fine portico with 8 Ionic pillars. The Carlsruhe railway depot is a rather showy but at the same time imposing building, and has a holiday look, as if people travelled more in search of pleasure than of business. The Korle-ruher Zeitung is the principal newspaper of the town

CARLSTAD, a province of Sweden, between lat. 59° and 61° N., and lon. 12° and 14° 80′ E., bounded on the S. by Lake Wener and the province of Wenersborg, on the W. by Norway, and on the N. and E. by the provinces of Čerbro and Faelun; area, about 7,000 sq. m. The population has increased from 140,977 in 1815, to 186,-783 in 1885, and 232,521 in 1855. The province is rich in iron, copper, and lead mines, and the trade in iron is of great importance.—CARLSTAD, the capital of the province, stands on an island of Lake Wener, 160 m. W. of Stockholm. Among the public buildings are a cathedral, a college, a cabinet of natural history, and an ob-

The exports are copper, iron, corn, salt, and timber. The opening of the Gotha canal which unites the lakes of Wener and Wetter and the Baltic with the Cattegat, has had a favorable effect upon the commercial activity of Carl-The town and its vicinity are noted for fine advantages for fishing and shooting.

Pop. in 1855, 4,128.

CARLSTAUT, Andreas, a German reformer, born at Carlstadt, in Franconia, about 1488, died in Basel, Dec. 25, 1541. He adopted the name of his native town, but his real name was Bodenstein. He took his degree of D.D. at Wittenberg, was appointed professor in that university, and subsequently advanced to the dignity of canon, dean, and archdeacon. From the very commencement of the reformation he was one of its firmest and most zealous adherents. In 1519 he held a controversy at Leipsic with Eckius on the doctrine of free will, in which he proved himself so decided an antagonist of Catholicism, that he was soon after ex-communicated by the pope. This severity on communicated by the pope. the part of his opponents, and his own ardent and impulsive temperament, hurried him into a course, in 1521, which Luther and Melanchthon severely condemned. He entered the great church of Wittenberg at the head of an infuriated multitude, and destroyed the crucifixes, images, and altars of that venerable fane. He rejected the title of doctor, abandoned his professorship, applied himself to manual labor, and affirmed that learning was useless to biblical students, who ought rather to toil like him, with their hands than waste their time in the acquisition of unprofitable knowledge. After Luther's return from the Wartburg, however, the old order of things was restored in the church of Wittenberg, but Carlstadt went 2 years afterward (1524) to Orlamunde, a small town in the electorate of Saxony, where he forcibly took possession of the pulpit, creating disorder, which was again denounced by Luther. Expelled from Saxony, he brought forward the question of the real presence of the body and blood of Christ in the eucharist, avowing himself the antagonist of Luther, and defending the extreme Protestant view of that doctrine. Suspected of sympathizing with the peasants' war in Franconia, he continued to give umbrage to the authorities, and led for several years an unsteady nomadic life, until, reduced to extreme poverty, he appealed to Luther, who generously granted him assistance and a domicil near Wittenberg, under the condition that he would refrain from giving utterance to his religious opinions. Having quietly spent about 8 years in agricultural and commercial occupations, he again came forward in 1528 with several violent publications; and to escape from the indignation of Luther, against whom he was believed to have planned conspiracies, he betook himself to Donmark, East Friesland, Strasbourg, and finally to Zürich, where he was kindly re-ceived and assisted by Zwingli. He was appointed archdescon in the latter city, and from

1584 to presol THE IN practical an followers in G Carlstadtians or first Protestant uivine u nuptial bonds.

CARLUKE, a municipal borough and perial of Scotland, county of Lanark, on the Clyde: pop. of the parish in 1851, 6,283; of the town 2,845. There is a handsome church here, and since the introduction of the cotton menu the place has increased rapidly. The banks of the Clyde in this vicinity are famous for orchard some of which are of vast extent. The antiq Major-Gen. Roy, and the sculptor Forms, were natives of this parish.

CARLYLE, JOSEPH DACEE, an 1 tal scholar, born in Carlisle in i. died a Newcastle-upon-Tyne in 1804. He cated at Cambridge, and elected Queen's college, where in 1' pointed professor of Arabic. he chaplain to the embassy at Con collected there valuable Gra He projected a revised editure tament with the aid of these live to complete his plan. пет of a translation of an Arabic l a volume of translations of Armus the earliest times to the extinction of a posthumous volume of p the scenes of his travels;

edition of the Arabic Bible. CARLYLE, Тномав, a British author, bern's 1795, in the parish of Middlebia, near the han-let of Ecclefechan, in Dumfriesshira, Scotinal. His father was a small farmer of that di and his mother descended from a family of same neighborhood, both being repres persons of extraordinary native force of character. He was the eldest of t children, and received the best part of his cation at home, though he enjoyed, be advantages of a school at Annan, university at Edinburgh. At school he at the acquaintance of Edward Irving, then 16th year, and on a visit to the tea from college, with prizes, high chara-promise," and full of "hope, joy, and h ness without end." As Carlyle was but 14 can be no doubt that the extraordine Irving, "opening a whole wonder-le knowledge," exercised a powerful infin his dawning faculties. He has left a re it in the beautiful and touching sketch famous preacher which he contribut ser's Magazine" in 1835, when the "foul Ca cean draught of popular applemen having medened his intellect, death fell upon his eased and prematurely aged body." But Irving," he says, "I had never known where the says of the says o the communion of man with men m was the freest, brotherliest, bravest h

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ver came in contact with: I call him, on iole, the best man I have ever found in orld, or now hope to find." This was an ble witness of friendship at a time when tion of Irving had fallen under the s contempt, as that of an impostor or a At college, however, Carlyle was distinguished for his attainments in tics, and the pursuit which he proposed was the Christian ministry. But he the college libraries in the search of of knowledge, and made himself faas few young men have done, with for-ages and the old English literature. r vacations were passed in rambling the hills and moors of his native land. rears after leaving college, about 1820, he ed himself in teaching in the family of Mr. s Buller, when he became convinced that ministry, but general literature was his His first work was a translation endre's "Geometry," to which he pre-n "Essay on Proportion;" and the next ife of Schiller," the beautiful prose, fine m, and manly sentiment of which must onvinced his friends that he had rightly his calling. It was originally published 'London Magazine" for 1823-'4, to which , Hood, Lamb, De Quincey, and Allan gham were contributors. At the same translation of Goethe's Wilhelm Meister ad, and astonished the critics by the farith which the ease, the power, and the f that remarkable work had been trans-ato another tongue. It was followed, in y the "Specimens of German Romance," n the exquisite tales of Tieck, Jean Paul, and Hoffmann received for the first adequate English dress. He had been the previous year to Miss Welch, a cendant of John Knox, who brought to the best virtues and graces of the es-Scottish female character. Residing for while in Edinburgh, they then removed to estate at Craigenputtoch, in the wildest Dumfriesshire, which he has described arnest and poetic a spirit in a letter to , with whom his translations had brought o correspondence. "Our residence," he is not in the town itself, but 15 miles N. t, among the granite hills and black movhich stretch westward through Gallomost to the Irish sea. In this wilderness . and rock, our estate stands forth, a usis, a tract of ploughed, partly enclosed anted ground, where corn ripens, and ford a shade, although surrounded by ws and rough-woolled sheep." He then is to paint a charming picture of rural and ic comfort. "Piled up on the little liable," he does not forget to add, " are a art-load of French, German, American, glish periodicals, whatever they may be " It was in this solitary, but delightful, that Mr. Carlyle began his papers for dinburgh Review," the first of which that

appeared was the essay on Jean Paul, which was followed by that on German literature, and then by that on Burns. These alone, had he put his name to them, would have given him a first rank among the writers of English. Their profound thought, their searching analy-sis of character, their deep fountains of noble sentiment, their sinewy language, and their varied learning, stamped the author as not only offe of the great thinkers, but as one of the most eloquent writers of his age. All the while he was engaged on lesser articles for the "Edin-burgh Encyclopædia," among which those on Montaigne, Montesquieu, Pitt, and Nelson are ascribed to him. He wrote also for the "Foreign Quarterly," and for the magazines. In the intervals of leisure, a run over to Edinburgh brought him into contact with Wilson, Jeffrey, and other literary celebrities, whose conversa-tion, doubtless, recreated and quickened his spirits, as well as his mind. In the course of the years 1838-34, he published in "Fraser" the most peculiar and remarkable of all his works,—the quaint, the whimsical, the profound, the humorous, and the poetic "Sartor Re-sartus," in which he seems to have poured all the accumulated treasures of his mind and heart. Under the eccentric guise of a vagabond German philosopher, and on the homely topic of the philosophy of clothes, he has brought together much of the deepest speculation, the finest poetry, the noblest morals, and the wildest humor that his or any age has produced. The strange conceits of it, and the barbaric rudeness of the style, not un-touched with more than barbaric splendor, repelled the booksellers from it, as from some huge, unknown bomb-shell, charged with all manner of combustibles. Nor did it readily find a public, when published, but, like many other new things, had to create its own audience. Since then it has come to be more enthusiastically and fitly appreciated. During the negotiations for the printing of "Sartor," Mr. Carlyle removed to London (1884), and has continued to reside there in a suburban neighborhood at Chelsea. His marked originality won him many admirers, while his geniality and humor made him many friends; and, from the publication of "Sartor" up to the present hour, his pen has been recognized as one of the great powers of English literature. not, however, till the year 1837, when he brought forth the "French Revolution, a Histhat his name was attached to his works, and he became known beyond a select and inner circle. While he was preparing that marvellous production, it is said, the manuscript of the 1st volume was burnt, and he was compelled to go over the vast field of reading and labor which it embraced anew. Not so much a "history"—as it supposes in the reader a considerable familiarity with the events which it professes to portray—as a grand collection of historical pictures, painted with fire and dark-ness, it may safely be pronounced the most

luridly vivid and fearful presentation of that stupendous epoch which has yet been made. The most animated delineations of Thiers are tame beside it, and the most brilliant sketches of Lamartine mere outlines in charcoal and chalk. But it has this defect, that the philosophy of it is contemptuous and mocking, and it depicts the varied and gigantic characters which stalk across the scene, not so much as responsible and living mortals, as the mere mechanical implements of some tremendous and irresistible The honor of collecting the "Miscellanies" of Mr. Carlyle belongs to Mr. R. W. Emerson, of Concord. Mr. Carlyle's studies for the "French Revolution" deeply interested him in social problems, the first fruits of which interest appeared in the "Chartism" of 1839. It was his first dash at the great practical questions of the day, which showed that, although he had not considered them as profoundly or as hopefully as he ought to have done, he had yet laid them close to his heart. They were interrupted for a time by a series of lectures which he delivered in London from 1887 to 1840, to numerous and excited audiences, on "German. Literature," the "History of Literature," the "Revolutions of Modern Europe," and "Heroes and Hero-Worship," the last of which alone has thus far been published. It was an evidence to most of his readers of two things: 1, that the strangely abrupt and tortuous style, which was perhaps very well adapted to the peculiar objects of "Sartor" and the "French Revolution," was now a chronic malady with him; and, that the beautiful reverence for silent intellectual force which marks his articles on Goethe, Burns, Schiller, &c., had been converted into a worship of mere force of will and strong animal impulse. The tendency to this substitution was already to be recognized in the loud preference for Danton and Mirabeau in the "French Revolution" to Robespierre; but it was made more obvious still in the "Heroes, and in his next work, "Past and Present." In 1845 he edited, as they had never before been edited, with some insight into the grand character of the man, the "Letters and Speeches of Oliver Cromwell," in which work his literary career appears to have culminated. The "Latter-Day Pamphlets," which appeared in 1850, and in which he resumed his discussions of social questions, are only remarkable for a violent imitation of himself, and not of his better self. The "Life of John Sterling," in 1851, evinced some return to his ancient and genial methods both of expression and thought, but the subject was scarcely large enough to arouse his powers. His "Collected Works" were published in London in 1857-'58. The first 2 volumes of the "Life of Frederic the Great," of Prussia, to which he had been devoted for several years past, were published in Sept. 1858. A "Memoir of Mr. Carlyle, with Passages selected from his Writinga," was pub-lished by Thomas Ballantyne in 1855. He has been most claborately characterized in an article

in the " Bayne's "On there is a vew the unevangelium the time has harmy o truthful appreciation of influence upon the tiny of the 19th concury. nificance has not yet been developed. opinion of many, he has given a new mra to the whole of English thought and craicism. He has imparted to the art of wrising a nobler tone, opened it to a wider range, infused into it a profounder spin: no one more than he can quicken the is pulses of young writers, as with the sound of a trumpet—no one lead them to richer or better sources. If his wild and objurg manner has somewhat corrupted style, his lot v and suggestive thought has stimulated se ment; if his scheme of philosophy is imperis as a whole, his occasional and disconnected views are full of grandeur, of beauty, and of truth; he is not always the safe guide, but is always an invaluable help; and though our be-nevolent feelings are repulsed by the stern mi remorseless indifference to the individual which shows itself in his later works, we may all discover beneath the incrustation of scorn ad callousness which has grown over him a noble fiery soul.

CARMAGNOLA, a Sardinian town, personal 13,000, on the river Mella, in the preince of Turin, famous for its extensive trate is silks and for its silk fairs, which annually the place in June. The town is on the railway is between Turin and Nice, contains several fastreets and public squares, 5 churches, 2 cm-

vents, and a hospital CARMAGNOLA, FRANCESCO, a famous en-dottiere, whose real name was Bussone, lenabout 1890, in the above-described town Carmagnola, the name of which he a The son of a peasant, he was a herd youth; but enlisting in the service of the of Milan (Filippo Maria Visconti), he rep rose in rank, and aided his master in re ing a great part of Lombardy, and in extantis possessions. The duke, however, because picious of his loyalty, confiscated his p cast his wife and children into pri banished him; upon which Carme the service of the republic of Ven which he received the appointment of issimo. He wrested Brescia from the Milan, and entirely routed his army battle of Macalo in 1427. After the l released his prisoners, which was frequency done at that time by condettieri, but instead the suspicions of the Venetian senate for so, and his subsequent military operation proving successful, he was recalled to under the pretext that his advice was a for affairs of state, placed under arrest, of treason, put to the torture and be May 8, 1432.

GNOLE, a song of the French reign commencing with the words:

Madam' Veto avoit promis, 128 ending with:

Dansons la Carmagnole, Vive le son Du canon l

me name was also applied to the revocostume worn by many of the terroris further applied to Savoyards in o are supposed to have emigrated from la; and the same town, whether not, is also supposed to be in some associated with the origin of the two led meanings of the word.

IEL, a range of limestone hills in N. W., terminating at the sea by the promonlount Carmel. Carmel is celebrated for lity of its sides and slopes, and although on has ceased, enough remains in the

wild olive, and the pasture, to bear at repute. It is the scene of some reat events of biblical history, and was at of the prophet Elijah from the tyr-'Ahab and the hate of Jezebel. The ishon runs at the foot of Carmel,

MELITES. Mt. Carmel appears to have avorite place of resort for Jewish asceoften furnished a secure and solitary to the prophets Elijah and Elisha. In Christian era, hermits were fond of emselves in the same region, and hence to have sprung up among the Carmeltradition that their order was founded prophet Elijah upon Mt. Carmel. The

worthy historical account of the founthis celebrated order, is that given by ed Bollandists. A crusader of the 12th Berthold of Calabria, made a vow in of battle to embrace a monastic life if ned the victory; and the battle being filled his vow by retiring to a cave on mel, called the cave of the prophet He was accompanied by some others, increasing numbers made it soon neo build a monastery. Berthold's suctained a rule from Albert, patriarch of n, which was confirmed by Honorius 224. Under Alanus, their 5th general, nelites migrated to Europe, to escape persecution of the Saracens, and a rule, suited to the western climate mers, was adopted and approved by This order, which was very extended itself widely, and gained a utation in Europe. The female branch rder was founded by F. John Soreth, 15th century. In process of time, laxation having been introduced into , St. Teresa, and St. John of the Cross et on foot in Spain a reformation, on of the original rule of Albert, as mod-Innocent IV. This resulted in a divithe order into 2 branches-one of the nd one of the stricter, observance. The of monks in the milder observance is

now about 700; in the stricter, about 1,200. There are 90 convents of Carmelite nuns, in each of which the number is restricted to 21. One of these convents is in Baltimore, having been transplanted from the lower counties of Maryland, where it was founded in the latter part of the 18th century. The Carmelites of Baltimore formerly kept an academy for young ladies, but they have recently given it up, and with some few necessary exceptions, keep the strict rule of St. Teresa. Notwithstanding their austere life, it is remarkable that they generally enjoy good health, and frequently attain to a very advanced age.

CARMER, JOHANN HEINEIGH KASIMIE, count, a Prussian statesman, born at Creuznach in 1721, died at his estate of Rützen, near Glogau, in 1801, celebrated for his law reforms, which, under the name of Allgemeines Landrecht (general civil law), became the new Prussian code of law, ratified by Frederic William II., June 1,1794.

CARMINE, a pigment of a brilliant scarlet color, prepared from the boiling solution of cochineal by adding alum and carbonate of potash or soda, and boiling for a few minutes. The liquid is strained, and allowed to stand for some time, when the combination of cochineal and alumina, called carmine, is deposited. Oxide of tin is also made use of to obtain a similar precipitate. The separation of the precipitate is hastened by the use of some albuminous matter, as white of egg or fish-glue, by the coagulation of which the carmine is collected. Several processes are in use for the preparation of the most beautiful carmines. That made by Madame Cenette of Amsterdam is said to be of so brilliant a hue as to be almost painful to the eye. It is thus given in the Annales de l'industrie: Two pounds of the finest cochineal in powder are to be put into a vessel containing 6 pailfuls of boiling noft water; and the boiling is to be continued for 2 hours, when 8 ounces of pure saltpetre, and soon after 4 ounces of binoxalate of potash, are to be added. After 10 minutes the boiling is to be discontinued, and the liquor is allowed to stand for 4 hours. It is then to be drawn off with a siphon into flat glazed dishes, and left for 8 weeks. A coating of mould forms upon the surface, which is to be nicely removed in one piece; or if any fragments remain, they must be taken out with the greatest care. The liquor is again to be drawn off with a siphon, leaving the cake of carmine in the dish, when it is to be carefully dried in a clean shady place.—As carmine is desired to be used principally as rouge, for imitating the soft blush upon the fairest checks, it is an especial object to obtain it of the highest degree of perfection; and so delicate are the proce of the French that the result is affected by the condition of the weather, and the best carmine is only made on bright sunny days. Sir Hum-phry Davy relates an incident of an English manufacturer agreeing to pay £1,000 to a Frenchman for the secret by which the latter made so superior an article; when it appeared

that the only difference in the two modes of preparation, was that the Frenchman always selected such fine bright weather as the Englishman could not hope to command in his own country. Carmine was accidentally discovered by a Franciscan monk at Pisa, in preparing a medicine of cochineal and salt of tartar. The beautiful precipitate, however, was soon found to be much better adapted for giving a rich bloom to the cheeks of fair maidens; and hence it soon assumed an importance which it still retains. Its use is extended to the manufacture of the best red inks, to silk dyeing, to the preparation of artificial flowers, and as a pigment in water colors and miniature painting. Its high value has rendered it an object to prepare it of different degrees of purity, according to the quantity of alumina mixed with it; and it is also adulterated by mixing with it more or less of the cheaper vermilion. As the pure carmine is wholly soluble in ammonia, these ingredients are easily detected, separated, and estimated

CARMOE, or KARMOR, an island of Norway, lying at the entrance of Bukke flord, in the North sea, 21 m. long, average breadth 5 m.;

pop. 6,890.

CARMONA, a Spanish town, pop. in 1852, 15,121, 18 m. from Seville, is a place of much antiquity, and was once strongly fortified. stands on an isolated hill, surrounded by old Moorish walls, has venerable churches, a university of Saracenic architecture, several manu-

factories, and an annual fair.
CARNAC, a village of France, in the department of Morbihan, pop. 8,838. Near it are more than 5,000 granitic obelisks of druidical origin, which stand perpendicularly in 11 rows

parallel to the coast.

CARNATIC, an ancient province of British India on the E. coast of the peninsula. Its limits are ill defined, but it is commonly thought to extend from Cape Comorin to lat. 16° N., and from the coast line to an average of about 80 m. inland. The province is separated into 2 parts by the eastern Ghauts, which run parallel with the coast, and which cause a considerable difference in climate between the table-land and the sea-board; the latter, in dry weather, is the liottest part of India, the thermometer sometimes standing at 180° in the shade. The rivers of the Carnatic are the Pannair, the Palair, the Coleroon, and the Vaigaru. The inhabitants are chiefly Hindoos. The Carnatic includes the cities of Madras and Pondicherry, beside the important towns of Arcot, Madura, Tanjore, Trichinopoly, Nellore, and Vellore. It was formerly included in the dominions of the nabob of Arcot, and the contentions arising from a disputed succession first brought the French and English into collision, and ended by the subjugation of the Carnatic under the British influence, which was completely effected in 1801, when the reigning nabob Azim ul Omrah transferred it to the East India company on condition of receiving a pension equal to

} of the revenue, and of his chief of provided for. The Carnatic has a wealthy provinces been the native warfare and bloodshed, by which ever was victor, the unhappy cultivator suffered in the end; as each successive ruler, feeling in tenure uncertain, only cared to make revenue while the power lasted, an example which was but too closely imitated by his unscrapsly ministers and officials. The Carnetic is now in cluded within the administration of the predency of Madras. The principal occupation the inhabitants is agriculture, the land be held either by Brahmins who cultivate it by hire labor, or by the farmer himself. Rice is the chief production, of which 2 crops are taken off the same ground in the year, if the facilities of irrigation admit it. Cotton is grown in favorable situations, and upon the high land in the interior of the province millet, sugar, asi indigo are raised.

CARNEADES, a Greek philosopher of the sceptic school, considered as the founder of the so-called 8d academy, born at Cyrene, 217 B. C. died at the age of 85 or 90. Of the incident of his life very little is known, but of his brilliant qualities as a philosopher and a rhetorisis, there is abundant testimony in the works of classic authors. In Athens, at that time the metropolis of art and science, he became a student of the stoic and sceptic doctries. especially those of Chrysippua, of whom he afterward became the most formidable opponent. He had essentially a critical mid, powerful in analysis, but weak in synthesis. While Chrysippus taught the absolute identity of human reason and the intellectual po pervading the universe, thus constructing a philosophical system which bears a strong N semblance to modern pantheism, Care hastened to destroy all illusions on the human nature of the soul, and maintains absolute acatalepsy, or absolute incapability the mind to comprehend any subject beyon own human sphere. So direct was his s onism to the doctrines of Chrysippus, that he said to have remarked: "Without Chrysthere would be no Carneades." Whether true or not, that whenever he ventured into a philosophical debate with Chrysippus, he took a dose of hellebore to stimulate his me ties, his eloquence was considered so irre his logic so forcible, that more than a co later Cicero said: "Him I would not care to lenge in debate, but would rather propitiste and implore his silence." Pierre Bayle a Carneades a destroying angel in pl and said that his eloquence m thing like wax. One fact is related indeed, that in some instances the Carneades was dreaded like something d acal. In 162 B. C., when he had bee Rome as one of 8 commissioners of the At commonwealth, he undertook to give the Rema barbarians a sample of his dislectic powers. He, therefore, one day made a speech in favor of

and the next day one in opposition, uments on either side were so convinci seemingly unanswerable, that the seato became afraid lest the public mind be corrupted by such an exhibition of le arguments for immorality and injuswell as for morality and justice. In to get rid of the dangerous example, sisted upon a speedy settlement of the atic business for which Carneades had a Rome. In his blunt rectitude, Cato able to comprehend that excessive men-

ent to which the Greek philosophers amed, and which enabled them to handle iblimest conceptions of the soul as so ellectual toys. In private life Cars to have been very respectable, ac-to moral standard of his age. The ξto ter or his philosophy, as compared with stract metaphysical theories of his adverwould seem, however, to point to more y propensities. That he was an active an, appears from the fact of his having diplomatic agent of a country in which sest attention to public affairs was the ad to public office. He enjoyed life, and d that singular sublimity of sentiment led some of his stoic opponents to comicide in order to dissolve their individual ato that of the universe. When he was at the stoic Antipater had taken poison, aimed: "Has he, indeed! Why, then, le that I too take—" His friends started ut Carneades, after a short pause, added, heerful smile; "... that I, too, take a lass of wine." Still the enjoyment of ver lessened his philosophical zeal. It is that he was frequently so absorbed in tion that he forgot to take his meals. not an author, so at least says Pluout transmitted his doctrines to his disby word of mouth, like Socrates. It is machus of Carthage, one of his disciples, tiquity owed the preservation in writing doctrines.—So far as the philosophy of les is known by the statement of Sextus rus, its substance may be condensed every perception is a certain change or ent in a sensible being, bringing to coness first itself, and secondly some object In respect to the object, the percepeither true or false; in respect to who perceives, either probable or im-There exists no test (criterion) to on the truth or untruth of a perception, to say, on the relation which the perbears to the object by which it is There is no objective certainty, or a y that real existing things are essentially

bears to the object by which it is
There is no objective certainty, or a
y that real existing things are essentially
ced by the human perception. Hence
lictical assertion, whether affirmative or
e, is justifiable. Nay, this very assertion
ere is no certainty, does not convey any
y. But whatever the relation of human
ion to reality, to man himself the mere
lity, the test of which lies within the

limits of his mind, is sufficient for all practical purposes. The probability of a perception stands in proportion to the closeness with which it corresponds to a chain of other perceptions previously tested and sifted.—Thus much may be designated as the affirmative or dogmatical portion of the philosophy of Carneades; the practical portion was his criticism of the then existing philosophical systems. The force of these criticisms, which was estimated so very highly by his contemporaries, is based merely upon the supposition, not contested at that time, that the affirmations and negations of human language comprise all existing possi-bilities, so that if both should be refuted, a non est would be proven. A simple "either-or" is the whole working capital of this method of reasoning, which constituted the glory of the sophists of old. Thus, for instance, Carnesdes pretends to prove the non-existence of God by the following strain of reasoning: God is either a rational and sensitive being, or he is not. If he is, then he would be subject to sensations agreeable and disagreeable, to likes and dislikes; but if so, he would be a changeable being, and, as such, liable to destruction. On the other hand, if God is not a rational and sensitive being, then he could not have been the creator of reason and sensation. Again: God is either finite or infinite. If the latter, then he would be motionless, and therefore inactive; if the former, there would be something that was more than he, because limiting him. Again: God cannot be either with or without virtue. If he be without virtue, he would be wicked; but if he had virtue, he would be human, because virtue has existence only as the opposite of sin, and could not, therefore, be a property of a being in which such a contrast is out of the question.—By similar arguments Carneades gets rid of all general ideas of morality, human rights, duties, &c. But when he seems to have destroyed every thing, he suddenly turns round, concluding that all these arguments prove merely that absolute metaphysical knowledge is as unnecessary as it is impossible—that man ought to be satisfied with probabilities and expediencies, which are amply sufficient to secure his well-being. Thus, after all, the net result of his scepticism, which in his time terrified so many grave philosophers, is but a snug little piece of practical business philosophy, a self-complacent smile at the fruitless efforts of those who are striving to solve the deep enig-mas of divinity and humanity, or persuading themselves that they have succeeded in doing

CARNEIA (Gr. Kappeta), a national festival of the ancient Spartans, celebrated in honor of Apollo, and in the Spartan month Carneios. The festival lasted 9 days, during which the Spartans were not allowed to enter upon a hostile campaign.

CARNELIAN (Lat. cornis, flesh), one of the

CARNELIAN (Lat. cornis, flesh), one of the numerous varieties of the quartz family of minerals. (See Agars.) It is found resembling

flesh in its colors, whence its name. By exposure to the sun and baking, the colors are deepened. Together with agates, carnelians are quarried in great quantities in different parts of Hindostan, particularly in the region of Cambay, whence the name commonly applied to them all of Cambay stones. They are also brought to the lapidary workshops at this place from different parts of Guzerat, to be worked up into round and flat necklaces, beads, bracelets, armlets, seals, marbles, chess men, studs, rings, &c., which make the most impor-tant commercial item next to cloth, and give employment in their manufacture to nearly 2,000 people, in 75 large and 25 small workshops. The information relating to the quarrying and working the stones is from the accounts sent on from India with the specimens for the great exhibition in London in 1851. Between the Bowa Gore and Bowa Abbas hills, on the plain, are small mounds, in which the stones are quarried by the Bheels of the district. They sink shafts, and excavate horizontal galleries, working underground with lamps. The stones, being brought to the surface and sorted, are purchased of the miners in the village of Ruttunpoor, by the contractor or his agents. When a considerable quantity is collected, a trench is dug in a field 2 feet in depth and 3 in breadth. In this a fire is made with the dung of goats and cows, and upon it earthen pots containing the stones are placed in rows. The fire is kept up from sunset to sunrise, when the chatties are removed, and the stones piled away. These once a year are carted to Nemodra, then sent down the river in canoes to Baroach, and thence in boats to Cambay. The manufacture of beads from the rough stone is thus conducted: The stones, brought to a convenient size, are chip-ped into a rounded form upon the point of an iron, standing inclined in the ground. Another workman then takes them, and fixing a number of equal size in wooden or bamboo clamps, rubs them on a coarse, hard polishing stone; they are then transferred to another man, who secures them in clamps, and rubs them on all their sides against a ground polishing board, smeared with a composition of emery and lac. The final polish is given by putting several hundreds or thousands of the beads into a stout leathern bag, about 2 feet long and 10 or 12 inches in diameter, with some emery dust and the carnelian powder obtained in boring the holes through the beads. The mouth of the bag is tied up, and a flat thong is bound around its centre. Two men scated at opposite ends of a room then roll it back and forth between them, keeping up the operation from 10 to 15 days, the bag being kept moistened with water. When the boads are well polished, they are passed to the workmen who bore the holes. This is done by means of a steel drill tipped with a small diamond, the work being kept wet by water dripping upon it.—Carnelian is a common mineral in many localities in the United States; but inasmuch as the working of

rough stones is not practised in this country, they are not regarded as of any value.

CARNICOBAR, the northernmost of the Nicobar islands, in the bay of Bengal. It is wooded, and very fertile. A settlement was formed here by the Danes in 1760, but was soon abandoned, on account of the unbeathing. ness of the climate.

CARNIOLA (Ger. Krain), a duchy of Astria, in the government of Laybach, kingdom of Illyria, between lat. 45° 10' and 46° 20' N, long. 18° 50' and 16° 25' E.; bounded N. by Carathia, E. by Styria and Croatia, S. by Cwatia and the district called Hungarian Laurale or Küstenland, W. by the circle of Courty, area, 3,848 cm. p. 2008, 508,556 to Goertz; area, 8,845 sq. m.; pop. 505,8%, the bulk of whom belong to the Slavic races. It is a mountainous region, traversed by branches of the Carniolan Alps, abounding in curious grottoes, caverns, and underground passages, and presenting many snow-capped summits, seveni of which are about 10,000 feet high. It is not ther so well watered nor so fertile as the neighboring districts of the empire, the only river of note being the Kulpa, and the lakes being mostly very small. The southern part products fruits and a fine variety of flax; bees and silworms are extensively reared, and in some ditricts, wheat, barley, and the grape are largely cultivated. With minerals, Carniola is richly gifted. Its famous quicksilver mines at Idra once produced upward of 16,000 cwt. per sname. and still yield from 8,800 to 8,500 cwt. Iron lead, coal, marble, clays, and precious store are also found. There are manufactures of iva. steel, fine linen, woollen, flannel, worsted stodings, lace, leather, wooden ware, &c. The exports comprise several of the above articles to gether with hats, glass, wax, wine, and flow: and the imports, salt, oil, coffee, sugar, tobern cloths, cattle, and fruit. The inhabitants are temperate and industrious. The Lutherm reformation made great progress here at first, but was checked by vigorous efforts, and Ross Catholicism is now the predominant religion -Carniola was subdued by the Romans # # early period, and was occupied by a Slavic tribe in the 6th century. It was Christianized in the 8th century, became a margraviate under the successors of Charlemagne, was governed alternately by the dukes of Austria and Carinthia, and in the 12th century was erected into duchy. It was then held by the powerful dukes of Tyrol, until the extinction of the family in 1835, when it passed into the hards of the counts of Goertz, who were succeeded by the house of Austria in 1365. By the treaty of Vienna in 1809, it was ceded to France, incorporated in the kingdom of Illyria; but restored to Austria in 1814. Carniola has been divided since 1849 into 10 districts. Laybach is the capital, and the Carniolan diet, composed of 82 members, assembles there.
CARNIVAL, a festival observed in most
Roman Catholic countries immediately be-

the commencement of Lent, but celebrated more parade in Rome and Venice than any or cities. Its name is doubtless derived from Latin, carni vals, farewell to meat, as from Wednesday, the 1st day of Lent, a strict fast red for 40 days. Much dispute exists to me origin of this festival, but it has probvoome down from the Saturnalia of pagan modified by the early Christians into a during the several days preceding the of 40 days, generally supposed to been instituted by Telesphorus, bishop of -ie, about the middle of the 2d century. carnival has been observed with more or usiasm during the course of centuries in saugdoms over which the Roman church has id principal sway, but it appears to be most to the genius of the Italian people, being by them with undying spirit, while in ands it has frequently languished or fallen wutter neglect. The only relic of it remaining Rugland, or ever introduced into the English rtions of North America, consists in the obrvance of Shrove Tuesday. In Paris the car-akes place during the 5 or 6 weeks preug Ash Wednesday, and is marked by the tency of masked and fancy balls in private and at the various places of public ent; such balls, to which the public is nately admitted, having been first perby the regent duke of Orleans in 1715. g the festivities, masks appear in the sees only on the Sunday, Monday, and Tuespreceding Lent, and at Mi-Carème or midt Thursday. On these days a number of pers in disguise, many of them masked, and ibiting all sorts of folly, parade the streets, scipally the northern Boulevards, and ims crowds in carriages, on horseback, or on . assemble to witness the gayeties of the The carnival was prohibited in 1790, no more celebrated until the appointment Japloeon Bonaparte as first consul. Its restion was a cause of great joy to the Parisand for some years nothing could exceed beauty and richness of the costumes dised upon this annual festival; but it has now many of its charms, and the masks are comtively few. After parading the streets, the ks repair for the night to the various masked of every description, which then abound capital. The public masked balls take on fixed days throughout the carnival, g given at almost all the theatres; the most at being at the opera houses, where they ence at midnight and are kept up until oreak. A motley throng of jaded maskers oth sexes may then be seen for an hour or about the Boulevards, and swarming in the s to breakfast. Citizens and strangers have privilege of going to these balls in plain hes and unmasked, although the ladies gen-ly appear with masks and fancy costumes. procession of the bouf gras (the fat ox) has ages past been celebrated at Paris, on the day and Tuesday before Lent. when the government prize ox, preceded by music, and accompanied by a numerous train of butchers fantastically dressed, is led through the streets. The ox is covered with tapestry, and his head adorned with laurel. Formerly the ox bore on his back a child, called roi des bouchers (king of the butchers), decorated with a blue scar and holding a sceptre in the one hand and a sword in the other. He now follows the ox in a triumphal car, but without his sword and sceptre. -The carnival in Italy is much the same in the different cities where it is celebrated; that of Venice is by no means as brilliant as in former days, and it will be therefore sufficient to describe that of Rome. It extends over the 11 days which immediately precede Ash Wednesday, though only 8 days are actually given up to its festivities, the 2 Sundays and Friday not being included, from motives of religion. The festivities are held in the Corso, and the street immediately adjoining, to which the show is confined. The Corso is about a mile long, but very narrow, being on an average only about 85 feet broad, and lined by lofty houses, nearly all of which are built with overhanging balconies, with especial reference to this spectacle; and where permanent balconies are wanting, temporary structures of wood are frequently crected. Thus persons on opposite balconies are brought within speaking distance, or near enough to exchange bouquets and sugar-plums. The street beneath is densely filled with carriages and foot passengers, and all are brought so close together as to act and react upon each other. The sport does not last through the whole of each day, but only from about 2 o'clock until dark, during the short days of February. If the weather is favorable, as much of the exhilaration of the scene depends upon sunshine, a stranger will on first beholding the carnival become madly excited and fully enter into its spirit in spite of himself, solemn as his deportment may usually be. The dull and sombre fronts of the houses seem suddenly to have put on liveries of blooming colors. Pieces of brilliant cotton, cloth, or silk, red, yellow, and blue, are hung over the balconies, while innumerable streamers of the same hues flutter in the breeze. Far as the eye can reach, the balconies are crowded with innumerable spectators, many of them beautiful and gayly dressed women. The course below is thronged with 2 rows of carriages, moving in opposite directions and filled with gay parties; while crowds of pedestrians mingle among the vehicles, who, clad in every variety of costume that ludicrous fancy can suggest, and masked, play every imaginable prank within the bounds of decency. A dozen masks will sometimes gather together on the back of a carriage, regardless of the occupants, vociferating in a leash of lan-guages, and one and all in the street or on the balconies engage with heart and soul in pelting others far and near with flowers, bonbons, and confetti. For some time before the carnival begins flowers are brought into Rome in exhaustless profusion, and exposed for sale in

450 CARNIVAL

such quantity and choice as to meet the caliber of every purse; costly bouquets of hot-house flowers being ranged side by side with the wild growth of the Campagna. The bonbons are not so abundant, but still are used extensively; while the confetti, which are nothing but pellets of lime about the size of a pea, are scattered in myriads, and form quite a serious weapon of attack, especially if suddenly dashed into the face as they often are from the hand, or blown out of a tin tube. The coating flies off these confetti into lime dust, with which persons become so covered from head to foot as to resemble millers. A few years since, a young English nobleman, noted for his eccentricity and senseless prodigality with his money, was in Rome during the carnival. Hiring an apartment on the Corso, he literally choked it with bonbons and confetti, and for a single feat, filling a large barrel with these missiles, aided by his servant, he dragged it into the balcony, tipped it upon the balustrade, and watching his opportunity showered down the whole of its contents into a passing carriage. The confectionery and lime pills fell with such force, that they started a panel in the bottom of the vehicle, filled it completely, beside nearly smothering the occupants, and scaring them out of their wits by the unexpected avalanche. A complaint was entered against him, and his fun suddenly stopped by a notice from the police, that if he played such antics again, he would be obliged to quit Rome. Every day of the masquerade the Corso becomes more crowded and more animated, till on the last the number and spirit of the masks, the skirmishes of bonbons and lime dust, and the shouts and enthusiasm of all, surpass description. the mass which elbow one another through the crowded streets, the greater part are in their ordinary garb, though disguises are common enough not to attract any particular notice. Among the most usual masks are punchinellos with enormous noses, and protuberant backs and stomachs; harlequins in particolored vest-ments, with daggers of lath; and pantaloons indulging their usual propensity for thieving by snatching bouquets from the hands of those in passing carriages. Quack doctors are numerous, with catalogues of nostrums for all imaginable diseases, and lawyers in gowns and wigs whose demeanor Portia could scarce excel. Some of the masks carry an inflated bladder on the end of a stick, with which they deal noisy but harmless blows. Beside the carriages such as are seen every day, many are put together for the occasion merely, and consist of frame-work resting upon wheels, and made to assume various shapes, such as ships or moving forests. Old dwellers in Rome compare the insignificance of the present carnival with its splendor in the past, and tell of pageants representing eastern monarchs followed by their trains of African slaves; cars of victory with laurel-crowned Cesars; Roman processions copied from those of the ancient city; the triumph of Bacchus, surrounded by Silenus and all his crew of

drunken fauns and delirious Becchangle wh used to parade the Corso.—Every day of the masquerade there is a race by spirited be but without riders. About 5 o'clock pro tions begin for the running of the Mounted dragoons trot up and down Corso, the carriages are withdrawn into bystreets, and pedestrians alone are left. M while the horses which are to run have b brought to the starting-point in the Piezza di Popolo. Each one is held by his groce in a showy uniform, and they are kept within bounds until the hour for starting arrives, by a rope stretched across the Corso. So impati the animals, however, so fully excited by the tumult of the scene, that it is almost impos to prevent them from leaping over the real and dashing onward, while in their street they do frequently get their fore feet our. dragging their grooms after them. The hos as before observed, have no riders, but me goaded on in the race by metal balls full of sharp points, which are fastened to their trapings, and at every motion pierce their & as they feel these irritants they desh mely forward, and the faster they run the more cruelly are they goaded. Instances have secured in which horses, discovering the comof their torment, have stopped short in the race, but generally as soon as the cable is thrown down they rush with fury through the Corso, the crowd opening to give them a pusage and closing up behind them, until they are stopped by a piece of cloth which is so across the street near the Venetian p the Ripresa di Barberi, so called from Barberi horses being the original racers. At this poss the judges are assembled to decide upon the race. Goethe, who visited Rome in 1788, my that carriages were then allowed to remain in t Corso, and their presence rendered it so necros that horses often dashed themselves against the wheels and were instantly killed.—Speakithese horses, Madame de Staël, in her "Cori says: "They arrive with neither bridle nor s dle, their backs only covered with brilliant at and conducted by gayly dressed grooms who manifest the most impassioned interest in their success. They place the steeds behind the barrier, and their impatience to be free is excessive. This ardor of the horses, the cries of the grooms, make at the instant of the barrier's fall a real dramatic act. The horses dash farward, the grooms cry 'Room! room!' with indescribable transport. They accompany that steeds with gesture and voice as long as the can see them. The horses are as jeals each other as the men. The pavement a fire beneath their hoofs, their manes at upon the wind, and their desire to ge prize, thus left to themselves, is so great the some on arrival at the goal drop dead from the fury of the race. One is astonished to see loose horses thus animated by personal They reach the Venetian palace, and it is while to listen to the exclamations of

wer the conquering horses. He for e first prize had been gained, went his knees before his horse, thanked invoked on him the blessings of St. the patron of animals. It is generallose of day that the races are concludnen begins another kind of amusement resque but very obstreperous. are illuminated. The guards abandon to mingle themselves in the general each one then produces a little taper ccolo, and seeks to extinguish those of d at the same time preserve his own, hile repeating changes on the word th amazing velocity. Che la bella Che il signore a sia ammazzata! ia ammazzato! (meaning literally, beautiful princess! kill the signor esounds from one end of the street to The crowd is now assured of safety,

es or carriages are allowed, and finally up to dissonant tumult. Meanwhile ances, the noise ceases by degrees, profoundest silence succeeds, and of ng there remains only the idea of a lream which has changed every one's which for a moment has caused the forget their toils, the learned their id the nobles their idleness."

IVORA (Lat. carnis, flesh, and coro, an order of mammals which feed as distinguished from the herbivora. ple-feeders. This order has been divarious groups by different authors, iding in it the cheiroptera and insecd others limiting it to the following 5 which agree in their most essential , viz.: ursida, or bears; mustelida, s; canida, or dogs; felida, or cats; da, or seals; the bears constituting grades, the seals the pinnigrades, and three the digitigrades, according as e foot or only the toes touch the r as the extremities are modified into ddles. The felida are the most truly us, and constitute the type of the orin them the large canine teeth, sharp claws, great strength and agility, in-pecial formation for the pursuit and n of living prey. The skeleton exhibodifications adapted for the manner the shape of the bones, their articulaproportions. In the felida the spine yet strong, with a large development abar portion; the ribs are narrow and the limbs long and affording the reedom of motion, and the skull broad. In the weasels, the spine is d in accordance with the habits of vling creatures. In the bears, the foot placed on the ground, and the shorte lumbar region of the spine adds to ess and strength of limb required in carnivorous animals. In the seals, the limbs are extended backward into 2 I fins, the anterior also serving in ad-

dition for a limited progression on land. The cranium is remarkable for the shortness and strength of its facial or tooth-bearing portion, and for the crests and large fosses for the accommodation of the powerful muscles of mastication; in the cats, the tentorium cerebelli is bony, evidently to protect the brain during the sudden movements of leaping upon their prey, and the whole bony structure is remarkably solid; the lower jaw is strong and short in proportion to the carnivorous propensity of the genus. The vertebræ of the neck are remarkable for the size of the first 2; the dorsals and the number of ribs vary from 18 (the most common) to 16; the lumbar vertebræ, always numerous in proportion to the leaping powers, vary from 4 to 7; the sacrum is composed of several vertebræ, and in the bears is remarkably broad, for the support of the body in their frequently erect position; the tail is the longest in the most active species, as in the lion and the panther. The shoulder blade is flat and broad; the clavicle, when not entirely wanting, is quite rudimentary; the humerus is arched, short, and strong; the bones of the forearm have but little motion on each other, except in the urside, and the ulna is generally placed behind the radius, both of them in the seals being broad and flat: the metacarpus is much larger in the digitigrades than in the planti-grades. The retractile claws of the felida are described under the article OAT, in which fam-The pelvis is ily they are most developed. short, and its bones broad and flat; the thighbone is moderately long, and directed immediately downward, except in the seals, in which its direction is outward. The bones of the leg are generally separate; the tarsus consists of the usual 5 bones, but the tuberosity of the os calcis is quite long and strong; the inner metatarsal bone in the cats and dogs is merely rudimentary; in the weasels the inner toe is small, in the cats wanting, and in the planti-grades in the same range as the others; in the plantigrade foot every thing is arranged for slow and steady walking, in the digitigrade for leaping and tearing, and in the pinnigrade for swimming. The muscles in this order, especially of the jaws, neck, and anterior extremities, are enormously large and powerful. In the typical carnivors, the incisor teeth are small, and placed in the intermaxillary bone; the canines situated above, at the junction of the intermaxillaries with the superior maxillaries, are strong, long, and cutting, slightly curved, and admirably adapted for tearing their prey; the cheek teeth have cutting edges, the lower shut-ting within the upper like the blades of scissors, and are provided with sharp triangular processes; the teeth are arranged in a short space, and their action is rendered more efficacious by the shortness of the whole jaw, and by the simple, hinge-like motion of the lower jaw; in the seals, the canines are much smaller, but the cheek teeth are furnished with numerous sharp points for the purpose of holding the slippery and scaly fish upon which they feed; in the bears, the jaws are much longer, and the molars are flattened and tubercular, indicating the far less carnivorous propensities of this family. The carnivora, in proportion to their approach to the typical felida, whose food, when swallowed, is so like their own tissues that it is ready for speedy assimilation, have a short intestinal canal; in the lion it is but 8 times the length of the body, and has very few internal folds, and a very small cæcum, while in man it is 5 times as long, in the horse 10 times, in the sheep 28 times; such is the relation between the organs, that the form of the teeth indicates the character of the intestinal canal, the armature of the feet, the mode of progression, and very nearly the habits and mode of life of an animal. The lobes of the liver vary in number from 4 in the badger to 8 in the lynx, without any apparent physiological reason; the hepatic ducts correspond in number to the lobes, and the common duct, before it enters the intestinal cavity, frequently receives a pancreatio duct; the gall-bladder is always present, and in the ursida is of great size; the pancress and spleen do not differ, except in form, from these organs in other manmals; the chyle is so noted for its opacity and whiteness, that the discovery of the lacteals was made in these animals long before they were seen in man. The carnivora belong to the sub-class gyrencephala of Owen, in which the cerebral hemispheres are the largest developed (except in man), extending over a portion of the cerebellum and the olfactory lobes; in this arrangement they are next to the quadrumana, or monkeys; the hemispheres have well-marked, though simple convolutions. The organs of sense are well developed; in the diurnal carnivora, the pupil is round; in the cats it is elongated vertically, and in a very bright light almost linear, but it is round in the dark, causing the brilliant tapetum of the posterior arch of the choroid to appear like a ball of fire; the large size of the mastoid process, communicating with the cavity of the tympanum, indicates considerable acuteness of the sense of hearing, necessary for animals seeking their prey during the stillness of night; the sense of smell, especially in the canida, is very acute, and the pituitary membrane is extended greatly by means of the complicated convolutions of the turbinated bones; the sense of taste is probably not very acute, and the tongue of the cats is covered in its middle portion with horny spines, well calculated to tear the flesh from bones. The kidneys in some families, as in the bears and reals, are much subdivided, resembling a bunch of grapes; in the cats the divisions are hardly perceptible. In the civets and allied genera, there are glandular follicles, which secrete a peculiar odorous substance, sometimes exceedingly fetid; the glands are usually situated near the anus, and the excretory ducts open between the rectum and the genital organs. The testes are generally pendulous and external, but in the seals they

remain permanently within the abdor ity; the resicula seminales do not exist, h organs resembling the prostate and Compare glands are generally found; in almost all there is a bone in the penis, the hyena forming as exception, it is said; the tests are abdominal. ranging from 4 in the lionees to 10 in the back: the placenta is zonular, surrounding the fo The geographical distribution of the caraiven is very extensive, but the largest and most destructive species are confined to the tropics of the old world; the tiger is limited to Ass lion to Asia and Africa, the cougar to America; the largest bears frequent the arctic rep and the largest seals the antarctic waters. carnivora fulfil an important purpose in the economy of nature, by keeping in check the increase of the herbivorous animals, whose co less numbers would otherwise destroy vegs tion, and thus cause their own and a sen destruction. Cuvier associated, under the m carnassiers, the cheiroptera, insectivora, carrivora, and marsupials; excluding the late, which form a sub-class by themselves, may more recent authors adopt a somewhat sis classification. Prof. Agassiz, in his recent Lesay on Classification," divides mammals into 3 orders, marsupialia, herbicora, and caraines, the last the highest in the scale. Prof. Own divides his sub-class gyrencephale into the 3 primary divisions of mutilata (including the c ceans), ungulata (pachyderins and rumine and unquiculata (carnivora and the monkeys); the last being the highest in development; in the unquiculata, the sense of touch is now highly developed through the greater nu and mobility of the digits, and the smaller extent of covering with horny matter; in the car nivora, he places the digitigrades at the he then the plantigrades, and lastly, the pi grades; and among the digitigrades the felici are placed highest, whose retractile claws long and narrow hind foot make them the perfect and typical form of the carnivora.

CARNOCHAN, JOHN MURRAY, AR AM surgeon, born in Savannah, Ga., in 1817, de scended on the mother's side from Gen. Put celebrated in the war of independence. yet a boy when he was removed to Edinburg the capital of his father's native land. After uating in the high school and university of th city, he returned to the United States, an tered the office of Dr. Valentine Mott, of Ber York, as a student of medicine. After taking his degree, he again visited Europe, and passed ser-eral years in attendance upon the clinical lecture of Paris, London, and Edinburgh. In 1847 ho fixed his residence in New York, and co ed the practice of the profession, in whice merous brilliant and original achievements gained for him an honorable name, be home and abroad. In 1851 he was app surgeon-in-chief of the New York sti grant hospital, a station he still holds. he successfully treated a case of sign Arabum by ligature of the femoral actory.

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year, he performed the operation of ing the entire lower jaw, with disarticof both condyles. In 1854 he exsected ulna, saving the arm, with its funcmpaired; and subsequently, in another

moved the entire radius, with equal In 1856 he performed, for the first e of the most startling and original operarecord, in exsecting, for neuralgia, the mak of the 2d branch of the 5th pair s, from the infra-orbital foramen, as e foramen rotundum at the base of the Amputation at the hip-joint he has peratimes. Since 1851, Dr. Carnochan professor of the principles and operf surgery in the New York medical and has published his lectures on paratations of the foot, lithotomy, and lithond also a "Treatise on Congenital Dis-i" (New York, 1850); "Contributions tive Surgery" (Philadelphia); and has d Sedillot's Traité de médecine opérandages, et appareils, and Karl Rokitanandbuch der pathologischen Anatomis

NOT, LAZARE NICOLAS MARGUERITE, a statesman and tactician, born May 18, Nolay, Burgundy, died Aug. 2, 1828, eburg, Prussia. When only 18 he was id lieutenant of engineers; 2 years later st lieutenant; in 1783 captain, in which wrote an essay on aerial navigation and r of Vauban, which brought him into rsy with Gen. Montalembert, who im to be arrested and confined in the

He had also published about the same Essai sur les machines, in which he rated a new theorem upon loss of mower, which Arago has declared to be ne greatest and most useful discoveries ge. He was entirely absorbed in these then the revolution commenced. He did st actively participate in it, although he d to the national assembly a memoir iew to a restoration of the finances. was elected deputy to the legislative , by the department of Pas de Calais. ted himself assiduously to his new dus a member of the committee on miliirs, he greatly contributed to the adophe decree ordering a large addition of the national guard; and it was in activities with his report that, for want of muse new guards were armed with pikes.

y of these weapons was soon tried. 10, 1792, in the assault against the About the same time he was reo the convention, and was present on of Louis XVI.; his vote was recorded words: "In my opinion, both justice d policy require the death of Louis; ist confess that never a duty so heavily on my heart as the one that is now in; upon me." He was neither a Girond-Montagnard, and however aggrieved at if the former party, he did not hesitate to

side with the men to whose hands the destinies of the republic were henceforth committed. In Aug. 1798, he entered the committee of The armies were disorganized public safety. and unruly; there were no funds, no provisions; enemies had invaded France in every direction; the insurgent Vendeans were successful; the rebellious city of Lyons kept at bay the besieging army; and Toulon had been just delivered by treason into the hands of the English. Carnot went boldly to work, and succeeded so well, that his fellow-citizens declared emphatically that he had "organized victory." proved himself to be not only a skilful administrator, but a tactician of the highest ability. The 14 armies created by the rising en masse of the nation, cooperated under his orders in the execution of a well-devised plan; they were placed under the command of new generals able to understand the projects of the directing mind, and defeats were soon succeeded by brilliant victories. Carnot sometimes repaired in person to the weakest or most exposed point to watch the operations, and to inspire the troops with his ardor and confidence. Thus, by the energy and wisdom of his measures, as well as by the influence of his example, he contributed to the victory of Watignies, which forced the prince of Coburg to retreat. Toulon was now retaken from the English; the Vendeans were defeated and almost destroyed, and the Austrian army was expelled from France. As a member of the committee of public safety, Carnot must bear his part of the responsibility for the bloody measures which were then adopted; but it may be said in his exculpation that, being entirely absorbed in the performance of his especial duties, he had no time to give attention to what was going on around him. He left the interior administration in the hands of his colleagues, and was scarcely aware of the atrocities which were perpetrated in the name of the committee. Thus, he did not participate in the revolution of the 9th Thermidor; but after the fall of Robespierre he energetically defended his colleagues, Collot d'Herbois, Billand-Varennes, and Barere, charged with being the accomplices of the man in whose over-Carnos throw they had been instrumental. was on the point of being arrested, and was only saved by Bourdon de l'Oise exclaiming: "This is the man who has organized victory. After the 1st Prairial (1795), he was again threatened with impeachment, but was protected by the feelings of respect and gratitude which his great services inspired. He was obliged, however, to leave the committee and give up the management of war affairs, which he had held for nearly 2 years. On the establishment of the directory, he was elected representative by 14 departments at once, and took his seat in the council of 500. Being appointed one of the 5 directors, he resumed his previous office and planned the admirable campaign of 1796, the success of which was secured in Italy by Bona-

parte. But the directory was threatened by factions, and especially by the royalists; 8 of its members concluded that the only means of saving the republican government was a coup d'état; they performed it on the 18th Fructi-dor, and although Carnot was far from being a royalist, he was condemned to transportation. He avoided the sentence by concealing himself for a while in Paris, then escaping to Switzerland, and afterward to Germany, where he wrote a memoir to vindicate his conduct. After the 18th Brumaire he returned to France, and was appointed minister of war in 1800; but being unable to agree with the new master, he promptly resigned. In 1802 he was elected to the tribunate, where he voted against the establishment of the legion of honor, the consulate The speech for life, and especially the empire. he delivered on this last occasion breathed the most generous spirit of independence, and caused a great sensation. On the suppression of the tribunate he retired to private life, and resumed his scientific pursuits. But in Jan. 1814, when disasters were coming on France and the emperor, he addressed a noble letter to Napoleon, proffering his services: "I staid away as long as you were prosperous; now that misfortune has come, I do not hesitate to place at your disposal what little ability I may still pos-Napoleon at once intrusted him with the command of Antwerp. For years the supreme director of military affairs, he had gained no advancement in the army, and was still merely a major; Napoleon had to promote him to the rank of general, passing him through all the intermediate degrees at once. He gloriously defended Antwerp until the treaty of Paris, April, 1814, and returned to the capital, where he published a Mémoire au roi, full of liberal opinions and wise advice. On Napoleon's return from Elba, he appointed Carnot minister of the interior, which post he held for 8 months, during which he unwillingly received the title of count of the empire, but never bore it. After the rout of Waterloo he almost alone preserved his self-possession, and suggested energetic measures which were not adopted. "I have known you too late," said Napoleon on his departure. member of the provisional government, his honesty was not a match for Fouché's shrewdness. On the second restoration he was again outlawed, and retired to Warsaw, then repaired to Magdeburg, where he died. His writings are numerous; beside his various political papers, he has left disquisitions of great interest on several points of science, especially on fortification. A full and excellent biography of Carnot was published by Arago (Paris 1837).—LA-ZARE HIPPOLYTE, a French statesman, the second son of the preceding, born at St. Omer, April 6, 1801. He was of liberal opinions, became a disciple of St. Simon, and wrote the Exposition générale de la doctrine Saint Simonienne, the authorship of which was, with his consent, aseribed to Bazard. But as soon as St. Simonism

assumed the form of a reliparted with his friends, and wecomes, and the chief editor of the Revue encue He was also intrusted with the 1 Grégoire's and Barère's **Kémoi**s ed to the chamber of deputies us elected in 1842 and 1846. A lie i of Feb. 1848, he was min tion until July 5, and improcondition of the teachers, renuered we schools free, and established free lecture 1848 he was elected to the cor March 10, 1850 to the la After the coup d'état of . c. 1851, France; during his absence, he was a member of the corps legislatif, but: take the oath. He was re-elected in again refused to serve.

CARNUNTUM, an ancient Celtic town is the N. part of Pannonia, on the Dannbe, see where Hainburg now stands. It was an important military pass under the Roman, who made it at one time a station for their fleet estimated it at one time a station for their fleet estimated in the position of a sumicipium according to some inscriptions, of a colony according to others. During the was with the Marcomanni and Quadi it was for a years the residence of Marcus Anrelius, who has composed a part of his "Meditations." It was destroyed by the Germans in the 4th centry, was afterward rebuilt, became once more a Roman military station, and was finally destroyed during the wars with the Magyars in the middle ages. Its remains are very extensive.

CARO, ANNIBALE, an Italian poet, born is Citta Nuova in 1507, died in 1566. In 1548 he entered the service of Pietro Ludovice Farms, who 2 years later was made duke of Parms, sai who sent him several times on missions to the emperor Charles V. When the duke we assassinated at Piacenza, Caro fied to Parms, where he was kindly received by the new data, Ottavio Farnese. He then became secretary successively to the 2 brothers of Ottavia, the cardinals Ranuccio and Alessandro. He died while in the service of the latter, having best his secretary for 18 years. His works were as printed till after his death, some of them a late as 1588, and a volume of his lettera, edited with notes by Mazzuchelli, in 1839.

CAROL (It. carola, a song of joy), originally a song sung as an accompaniment to descript the which in England serves to designate a ballad for Christmas.

CAROLAN, TURLOUGH, an Irish making genius born in the county of Westmeeth, is the latter part of the 17th century, died in 17th Having lost his sight when a child, he straight the harp, and in after life not only metalized himself thereby, but even became fisment.

CAROLINA, NORTH, one of the original

CAROLINA, NORTH, one of the erigins states of the American union, situated between lat. 33° 53′ and 36° 33′ N., and long. 78° 35′ and 84° 30′ W., having an extreme length of 420 m. from E. to W., and an extreme break of 180 m. from N. to S.; area about 45,00° s.

00,000 acres. It is bounded N. by in the line of 36° 33', W. by Ten-by Georgia, South Carolina, and , and E. by the Atlantic. It mto 88 counties, as follows: Alalexander, Anson, Ashe, Beaufort, Men, Brunswick, Buncombe, Burke, Caldwell, Camden, Carteret, Caswba, Chatham, Cherokee, Chowan, 1, Columbus, Craven, Cumberland, Davidson, Davie, Duplin, Edgecombe, Frankin, Gaston, Gates, Granville, nilford, Halifax, Haywood, Henderord, Hyde, Iredell, Jackson, Johnston, oir, Lincoln, McDowell, Macon, Madin, Mecklenburg, Montgomery, Moore, w Hanover, Northampton, Onslow, asquotank, Perquimans, Person, Pitt, asquotank, Perquimans, Person, Prog dolph, Richmond, Robeson, Rocking-van, Rutherford, Sampson, Stanley, arry, Tyrrel, Union, Wake, Warren, m, Watauga, Wayne, Wilkes, Yadkin, North Carolina has no very populous chief seaport and largest city in the umington (originally called Newton, ed in compliment to the earl of Wilsituated in New Hanover co., on the ! Cape Fear river, about 85 m. from tic, 148 from Raleigh; pop. in 1850, bably 10,000 now. It is a place of the business activity. Raleigh, the potal of the state, named in honor of Sir leigh, is a handsome town, situated in near the Neuse river; pop. in 18. Newbern, formerly the capital te, is a thriving town, situated at the of the Neuse and Trent rivers, about S. E. from Raleigh, in Craven co. is oldest towns in the state, and is a place rable commercial importance; pop. in 1. Fayetteville is a flourishing and wn, situated on the Cape Fear river, ad of steamboat navigation, in Cum-, about 60 m. S. by W. from Raleigh, active business place; pop. in 1858, aufort is a seaport on Bogue sound, in o., 168 m. from Raleigh, has a spacious harbor, and engages in the coasting h in 1853, 2,000. Charlotte is situated he Sugar and Little Sugar creeks in nining county of Mecklenburg; pop. 2,500. Edenton, the county town in co., at the head of Eden bay, so of considerable shipping; pop. 607. Elizabeth City, the capital of k co., is on the Pasquotank river, ove its confluence with Albemarle d 215 m. N. E. from Raleigh, and ates with Hampton roads by means ismal Swamp canal; pop. in 1853, reenville, the capital of Pitt co., is place of 1,150 inhabitants, and is 02 m. E. of Raleigh. Halifax, the Halifax co., beautifully situated on bank of the Roanoke river, 87 m. igh, is a place of considerable trade

in cotton, corn, and lumber. Oxford, the capital of Granville co., 36 m. N. of Raleigh, is a town of considerable business activity; pop. in 1858, 2,500. Salisbury is one of the principal towns in the interior of the state, and one of the oldest; pop. 4,000 to 5,000. Asheville, in Buncombe co., is the principal town west of the mountains; pop. in 1858, 1,000. The other towns worthy of mention, and containing populations ranging from 500 to 1,500, are Elizabethtown, the capital of Bladen co., on Cape Fear river, 99 m. from Raleigh; Greensborough, in Guilford co., named in compliment to Gen. Greene, is a flourishing manufacturing town; Lincolnton, Lincoln co., contains several cotton and paper mills, and iron works; Plymouth, Washington co., on the Roanoke, has a large business in the lumber trade and the building of coasting vecsels; Smithville, on the Cape Fear river in Brunswick co., has a good harbor, and is a place of considerable trade; Tarborough, on the Tar river, in Edgecombe co.; Washington, in Beaufort co., on the Tar river, near its confluence with Pamlico river, has a considerable coasting trade and contains the usual county buildings, and 3 churches.—

The population of North Carolina, according to the december of the properties of the pr to the decennial enumerations from 1790 to 1850 inclusive, has been as follows:

Consus.	Whites.	Blaves,	Free Colored.	Total Population,
1790	288,204	100,579	4,975	893,751
1800	887,764	188,296	7,048	478,106
1810	876,410	168,894	10,966	555,500
1820	419,900	905,017	14,619	688,839
1880	472,848	245,601	19,548	787,987
1840	484,870	245,817	99,789	758,419
1850	558,098	288,548	97,468	869,089

The federal representative population (all free persons and \(\frac{3}{5} \) of the slaves) is 753,619. Of the white population in 1850, 273,025 were males, and 280,003 females; 15,851 were less than 1 year of age; under 5 years, 85,652; 5 and under 10, 80,200; 10 and under 15, 78,299; 15 and under 20, 61,955; 20 and under 80, 95,648; 30 and under 40, 61,093; 40 and under 50, 42,287; 50 and under 60, 27,899; 60 and under 70, 15,-576; 70 and under 100, 351; 100 and under 70, 2,190; 90 and under 100, 351; 100 and unward, 61; unknown, 126. The returns show 389 as deaf and dumb; 879 as blind; 467 insane, and 615 idiotic. Born in the state, 539,483; in other states of the Union 20,784, of whom 10,838 were born in Virginia, 4,420 in South Carolina, and 2,087 in Tennessee; in foreign countries, 2,565; unknown, 196. Of the slaves, 144,581 were males, and 143,967 females, and 164 were over 100 years of age. There are 28,803 slaveholders in the state, of whom 1,204 own each 1 slave; 9,668 own 1 and under 5; 8,129, 5 and under 10; 5,898, 10 and under 20; 2,828, 20 and under 30; 485, 50 and under 100; 76, 100 and under 200; 12, 200 and under 300; 3, 300 and under 500. The number of dwellings ocupied by white and free colored was 104,996; number of families, 105,451. The number of deaths in the state during the year 1850 was

Black and other mountains, elsewhere noticed; the Swannanoa gap, a deep pass in the mountains between Morgantown and Asheville; the Catawba Falls near by; the warm springs of Buncombe co., Painted rock, and a curious rock called "the Chimneys," in the same vicinity; the Gingercake rock in Burke co., a curious pile of stone on a rocky eminence, in the form of an inverted pyramid, commanding a fine view of a ravine from 800 to 1,200 feet deep. The mountainous regions of North Carolina, abound in grand and picturesque scenery.— The climate of the state is as varied as its surface and products. In the low country the atmosphere is hot and humid, and in the mountainous region it is cool and dry. In the interior it partakes somewhat of each extreme, according to locality. The mean temperature of Raleigh for the year is 60°.—It will be seen by statistics noticed elsewhere that the people of North Carolina are chiefly occupied in agricultural pursuits, though commerce, manufactures, and mining are carried on to some ex-The most important branch of manufacturing is that of spirits of turpentine, which is produced by distillation from crude turpentine, or the sap of the pine tree, the pinus palustris, a long-leaved pine yielding the sap more freely than any other variety of the pine family. There is an immense extent of territory in North Carolina covered by this species of pine, extending from a point near the line of Virginia across the entire state, and indeed beyond the state to the gulf of Mexico, and varying in width from 30 to 80 m. This belt of land is situated between the swampy country along the coast and the hilly region of the interior, and consists mainly of a level, sandy barren, so unproductive that few of the proprietors grow as much grain as they require for their own consumption. Occasionally, however, the ground is undulating, and in some places low and wet, where a mixture of deciduous trees and occasional veins of clay are found. Although the "piny woods," as the natives call the turpentine forests, have been settled by Anglo-Saxons about as long as any portion of the United States, yet the roads are very poor, being the merest openings through the woods, and generally without bridges across the streams. pine trees which cover this tract are from 8 to 18 inches in diameter, with straight trunks which run up 25 to 30 feet without a limb, at which height their evergreen foliage forms a canopy so dense as to nearly shut out the light of the sky. The turpentine is procured by cutting boxes or pockets in the trees near the ground, with a long, narrow-bladed axe made for the purpose. These boxes hold from 1 to 8 pints, and are formed by giving the axe a downward stroke, the lower lip of the box being horizontal, and the upper arched, while the bottom is from 8 to 4 inches below the lower lip. From 1 to 3 boxes are made in each tree, according to its size. The sap runs only in warm weather. The boxes are cut from November to

March, one man cutting from & day. The sap begins to flow free middle of March, and is collect boxes by means of a peculiar ladle, ed in barrels. The sap soon conge tially to close the cellular tissues so that in order to renew the flo face must be exposed once in 8 which is done by taking off a thin above the box. This hacking proc on from year to year, until in some pineries the axe marks are extende the trunks that ladders are used i scarifications. When the trees a sively hacked, a large proportio congeals before reaching the boxe to the trees. This gum is occasio off and put into barrels, and is k market as "scrape," being of an int and worth only half as much as th: the boxes, which is called "dip. able quantities of crude turpentinto the N. and distilled; but the portion is distilled in the state proprietors of turpentine forests of their own, to whom the small their product in its crude state. used are not essentially differer ardent spirit stills in common capacity of from 5 to 20 bbls., and 2 batches a day; i. c. a 20 bl 40 bbls. of sap, producing abon spirits of turpentine, and 23 bl When the spirits of turpentine as the residuum, which has the appe molasses, forms the rosin of comticle not in sufficient demand t land transportation; so that, with 1 of those distilleries near railroads streams, the rosin runs to waste, as congealed pools of thousands of b "its appearance," says Olmsted, "tiful, firm, and glare, varying in glistening like polished porphyry.' rosin is to be saved, it is drawn off water by which the chips and rubb in the crude turpentine are separa rosin, which is barrelled for mark tine will not pay for wagon transportant 30 miles. The turpentine valued at from \$2 to \$20 per ac 500 to 1,000 trees grow upon an a ing, on an average, 2,000 boxes, as from 12 to 16 bbls. of turpentine, spirits and 8 of rosin. A turpe with ordinary treatment, will la the trees are then felled, cut up. or charred, in kilns, producing pitch is a concentration obtai The long-leaved pine is of slow rings on a stump of this variety. 7 ameter, indicating an age of the removal of these trees, a bastard pine starts up rapidly of little or no value either -timber. The labor in the

erformed by slaves, whose wages, ed, are about \$120 per annum, with i clothing. The turpentine business d as favorable to health and longevity, rding to De Bow, is generally very to the proprietors. Exact statistics duce of the turpentine forests are not. De Bow, in his "Resources of the stimates the annual product of North it 800,000 bbls., of which about 200,000 ed to northern ports in a crude condithe remainder distilled in the state. ted value to the makers is from v io \$2,000,000. From 4,000 to 5,000 are engaged in the business, and it is that 3 times as many more are mainly by the proceeds of the sale of turpenere are about 150 stills in the state, n an average, \$1,500 each, and showing liture of \$225,000 in preparations for ing business. The census of 1850 re-196,983 acres of farming lands in the vhich 5,453,975 acres were improved, 3,008 unimproved. There were 56,968 I plantations in the state, averaging each; aggregate cash value \$67, value of farming implements and r, \$3,931,532; average value of ,192; average value of farming imand machinery, \$69. The aver-ictiveness of the state per acre is: bushels; rye, 15; maize, 17; oats, 10; 65. Cotton plantations producing ind upward, 2,827; rice plantations 20,000 lbs. and upward, 25. The lds are principally in Anson, Richl other counties along the southern The rice plantations are mainly on r and Chowan rivers, and the lower oanoke. The farms of the state in re stocked with 148,693 horses, ses and mules, 221,799 milch cows, orking oxen, 434,402 other cattle, sheep, and 1,812,813 swine; total live stock, \$17,717,647; of ani-thered, \$5,767,866. The wheat pro-2,130,102 bushels; rye, 229,568 bush.; 52,078; maize, 27,941,051; sweet 5,095,709; Irish potatoes, 620,318; 735; buckwheat, 16,704; hay, 145,-; hops, 9,246 lbs.; clover seed, 576 her grass seeds, 1,275 bush.; butter, cheese, 95,021 lbs.; cast and lbs.; cheese, 95,921 lbs.; pens and 584,252 bush.; produce of market \$89,462; orchard products, \$34,348; id bees-wax, 512,289 lbs.; homeaufactures, \$2,086,522; flaxseed, 38,; flax, 593,796 lbs.; hemp, 39 tons; ar, 27,932 lbs.; molasses, 704 gallons; tton, 54,545 bales of 400 lbs. each; 5,868 lbs.; tobacco, 11,984,786 lbs.; 1,738 lbs.; silk cocoons, 229 lbs.; 58 gallons; value of household goods 1,413,242. The census report returns ufacturing and mining establishments, ; a capital of \$7,252,225, using raw VOL. IV.-30

material valued at \$4,805,465, and employing 12,444 operatives (10,698 males and 1,751 females), whose annual wages were \$1,796,748. The annual product of these establishments was \$9,111,245, yielding 84.60 per cent. profit. Among the manufacturing establishments were 28 cotton factories, with a capital of \$1,058,800, using 18,617 bales of cotton, valued at \$531,-903, employing 1,619 operatives (442 males, at \$11 65 per month, and 1,177 females, at \$6,12 per month, and 1,177 temales, at \$6,12 per month), and yielding an annual product of \$831,342; 1 woollen manufactory, capital \$18,000, using 30,000 lbs. of wool, valued at \$13,950, employing 30 operatives, and producing annually \$23,750; establishments for iron castings 5, capital \$11,500, value raw material \$8,341, hands 15, product \$12,867; wrought iron establishments 30, capital \$170,609, value of raw material \$50,089, hands employed 280, product \$331,914; whiskey distilleries and of raw material \$50,089, hands employed 280, product \$331,914; whiskey distilleries and breweries 47, capital \$21,930, corn consumed 64,650 bushels, rye 4,700, hands employed 72, whiskey and high wines produced 153,030 gallons; fisheries 76, capital \$235,115, hands 2,267, product \$250,025. The exports for the year ending June 30, 1857, were \$414,206, of which \$389,592 was in American, and \$24,614 in foreign weeks! foreign vessels. Imports for the same year, \$231,494, of which \$206,747 was in American, and \$24,748 in foreign vessels. The tonnage cleared in the same year was 88,037 tons, of which 84,401 tons were in American bottoms. Number of vessels cleared, 210, of which 192 were American. Tonnage entered, 20,218, of which 18,366 tons were in American vessels; number of vessels entered 124, of which 118 were American. Twenty-one vessels were-built in the state in 1857, of which 19 were schooners and 2 sloops, the total tonnage of which was 1,873.74.—The census of 1850 reports 4 public 1,873.74.—The census of 1850 reports 4 public libraries in the state with 2,500 vols., and 1 school library with 1,500 vols., also 51 newspapers, of which 8 were miscellaneous, 2 neutral, 85 political, and 6 religious; 5 are published tri-weekly, 40 weekly, and 6 semi-monthly; aggregate circulation, 36,839; annual number of copies issued 2,020,564. There are 4 colleges in the state, viz., the university of N. C. at Chapel Hill, the oldest institution of the kind in N. C.; Davidson college (Presbyterian) in Mecklenburg co., Wake Forest (Baptist) in Wake co., and Normal college (Methodist) in Randolph co. The university has an attendance of about 400 students, and the others an average of about 100 each. university, which is under the control of trustees appointed by the state, is endowed to the amount of \$150,000, and Davidson college about \$800,000. The census for 1850 returns 272 academies and private schools, with 403 teachers, 7,932 pupils, \$15,987 endowment, total annual income \$187,648; 2,657 public schools, with 2,780 teachers and 104,095 pupils. The annual income of the public schools is reported at \$158,564, of which \$1,585 is from endowment, \$42,986 from taxation, \$97,387 from

public funds, and \$16,715 from other sources. There were 215,454 white persons in the state between 5 and 20 years of age, so that less than 1 the children of the state attended school; 80,423 free adults cannot read and write, of whom 26,239 are white males, 47,327 females, 8,099 free colored males, 3,758 females, and 840 of foreign birth. These figures are from the U.S. census for 1850, since which public education has considerably advanced. A system of common schools was inaugurated in 1840, at which time only 14,347 children were returned as attending primary schools; and including those at colleges and academies, the whole attendance did not exceed 20,000 scholars. In 1853 an efficient general superintendent was appointed, and reappointed in 1855, who is responsible to the legislature and board of literature, consisting of 4 members, of whom the governor is ex officio president. From the superintendent's report for the year ending Dec. 31, 1855, it appears that there were 120,000 scholars in the common schools, and about 11,000 in colleges, academies, and private schools. The state is divided into school districts with local directors, the districts in each county being under the direction of a board of county superintendents, who report to the state superintendent. average length of schools is about 4 months in the year, and the average wages of male teachers \$21 per month, females \$18. The school fund in 1855 amounted to \$1,538,995 46, yielding annually about \$120,000 increased to \$180,000 by sales of lands, taxes, &c., and is distributed among the counties according to their federal population. The counties raise by taxation about \$60,000, making the amount annually devoted to public schools \$240,000. On July 1, 1857, the school fund had increased to the nominal value of \$2,156,745 42. —The census of 1850 reports 1,787 churches in the state, viz.: 604 Baptist, 786 Methodist, 151 Presbyterian, 54 Free, 51 Episcopal, 29 Christian, 31 Friends, 16 German Reformed, 49 Lutheran, 7 Moravian, 4 Roman Catholic, 4 Union, and 1 Tunker. The church prop-erty of the state is reported at \$905,753, viz.: Baptist, \$205,090; Methodist, \$292,608; Episcopal, \$112,340; Presbyterian, \$172,530; Christian, \$10,575; Free, \$16,860; Friends, \$8,075; German Reformed, \$17,500; Lutheran, \$29,525; Moravian, \$34,000; Roman Catholic, \$20,000; Total \$5,900; Tunker, \$100; Union, \$650. Total church accommodations, 574,924, viz.: Baptist, 201,797; Mcthodist, 222,687; Presbyterian, 64,230; Christian, 11,600; Episcopal, 15,245; Free, 14,870; Friends, 13,220; German Reformed, 5,725; Lutheran, 19,750; Moravian, 8,000; Roman Catholic, 1,400; Union, 1,200.—The constitution of the state was formed in Dec. 1776, and modified in 1835, and again in 1857. It provides that every white male citizen, 21 years of age, 1 year a resident of the county, who shall have paid a tax, shall be a qualified voter. The executive department is vested in a governor elected by the people for

a term of 2 years, an advisory counc bers, secretary of state, treasurer, and a superintendent of common chosen by the legislature. be 35 years old, worth \$5,000, and resident of the state for 5 years. 1 nished house and \$3,000 per ar legislature consists of a senate of elected for 2 years, and a house of 120 members for the same term must possess each 800 acres of county from which they are chosen bers of the house of commons 100 legislature meets biennially at Ra 2d Monday in November, and a ment of representatives is made years, that of the commons being federal population, and the senate The judiciary is vested in a sur consisting of a chief justice and holding 3 courts each year, and su cuit courts, there being 7 circuits judges, who hold court twice a y county. The judges are all ele legislature in joint ballot, also an a eral, the former during good behalatter for 4 years. The supreme co appellate in its jurisdiction. The superior court have complete equity The salary of the supreme court jud and of the superior court, \$1,950. each court (over 12) held on a c peculiar feature of the constitut that "no person who shall deny the God, or the truth of the Christian the divine authority of the Old and ment, or who shall hold religious | compatible with the freedom or state," shall hold any civil office. man, engaged in his calling, can I of the legislature or of the govern The last report on the finances shows a state debt of \$5,209,848, interest of which is \$312,591, and property held by the state amounting 274. The receipts and disbursen 2 years ending Nov. 1, 1856, were a treasurer's hands Nov. 1, 1854, \$50 ccipts of literary fund, \$329,826 35 public fund, \$3,826,112 94; making ceipts \$4,211,060 08. The disbt the same period were: from literar; 665 59; public fund, \$3,557,93 \$3,954,603 80, leaving a balance in of \$256,456 28. The income of the p from the sale of bonds and loans, fr and interest, public taxes, taxes on and attorneys' licenses; and the pr of expenditure are, for the executive of state, about \$10,000, the ju \$30,000, interest about \$300,000, agricultural societies, \$7,500. The receipts are from entries of vacant and railroad dividends, retail lition dues; and s) of its (for the support or c

dumb and blind.—The railroads of the : the North Carolina, extending from ough to Charlotte, 228 m., capital stock \$4,000,000, cost of construction and at \$4,285,000; Raleigh and Gaston, g from Raleigh to Weldon, 97 m., capr paid in \$973,000, funded and floating 1,000, cost of construction and equipl,185,451; Wilmington and Weldon, mington to Weldon, 162 m.; Wilming-Manchester, from Wilmington, N. C., to le, S. C., 171 m., capital stock paid in 00, debt \$993,000, cost of construction nt, \$2,331,000, receipts for 1856, working expenses, \$196,000 (about road is in S. C.); Roanoke Valley, from y junction, N. C., to Clarksville, Va., 22 the Atlantic and N. C., extending from harbor to Goldsborough. Several oads have been projected, viz.: the ton, Charlotte and Rutherford, extendfrom Wilmington to Rutherford; the , from Danville, Va., near the N. C. line, isborough, N. C., connecting the Rich-d Danville and North Carolina roads; tern North Carolina, from Salisbury in ral part of the state to Murphy in the west, where it connects with the Blue oad, and some others of minor impor-Of these roads the Western North Caro-(1858) in course of construction, and a able portion of it is nearly finished. une 1, 1857, there were 28 banks in , with an aggregate capital of \$6,425,culation, \$6,301,262; loans and dis-\$12,636, 521; specie, \$1,156,993; de-1,170,026.—The first attempt at settle-N. C. was made by a small party (108) alph Lane, sent out by Sir Walter Ra-Roanoke, an island between Pamlico marle sounds, in 1585. This party quarth the Indians, and returned the followwith Sir Francis Drake's fleet. vious to this settlement (1584) Raleigh, eceived from Queen Elizabeth a grant lands as he might discover in America, ssessed by any Christian people," sent

ll vessels which made the land at ear, and coasting north for a hardly, early in July, ran into Ocracoke de landed on an island called by the Woccoon, where they were hospitably. After slight explorations they bethe name of Virginia upon the region, med to England with a highly favorant of the country, which induced the no of 1585. Other colonists were sent aleigh the same year, and the year folwho are supposed to have fallen victims adians; and no further attempts were colonize the country till about the midne 17th century. In 1680 an immense and south of the Chesapeake, designated ans, was granted to Sir Robert Heath; being colonized, the grant was subsedeclared forfeited. In 1663 Charles II.

formed out of the same territory the province of Carolina, which he granted to 8 distinguished noblemen of England. This grant was bounded S. by lat. 29° N.; W. by the Pacific ocean; N. by lat. 36° 80'; E. by the Atlantic. The grantees were made joint proprietors and vested with jurisdiction over the colonists. Previous to this grant a few settlements had been made in the N. part of the province, near Albemarle sound, by dissenters from Virginia, and a little colony had been planted near the mouth of Cape Fear river by New Englanders, which was subsequently abandoned. The celebrated John Locke wrote a scheme of government for the whole province, which was nominally its fundamental law for about 1 of a century, but which was so complicated and cumbersome as never to be completely carried out. Albemarle, the name then given to what now constitutes North Carolina, was augmented by settlement from Virginia, New England, and Bermuda, and William Drummond, one of the settlers, was its first governor, a man who was subsequently executed in Virginia as a rebel. Drummond was succeeded by Samuel Stevens, under whom were enacted the first laws for the colony by an assembly composed of the governor, council, and 12 delegates, the latter chosen by the people, and the for-mer by the proprietors. These laws were liberal, guarding carefully the rights of the settlers, and granting religious liberty to all. Settlements were made at various points, and the executive chair was filled in turn by various men; yet with the bad administration of public affairs, disquiet and turbulence on the part of the colonists, and occasional insurrections, the settlement of the country was very flow. In 1674 the population was about 4,000, and the annual product of tobacco 800,000 lbs. In 1695 John Archdale, a sagacious Quaker, was appointed governor, and succeeded in restoring the country to comparative order and quiet. Considerable settlements were made during his administration, and the export of tar and rice was commenced. Churches were erected and provision made for the support of public worship. In 1705 Thomas Cary was appointed governor, but was removed to give place to Edward Hyde whereupon Cary, to retain his position, incited a rebellion, and at the head of an armed force, attacked Edenton, but was repulsed, and finally, by the aid of regular troops from Virginia (1711), the rebellion was suppressed. Meanwhile the province was involved in a war with the savages. The Tuscaroras, observing with alarm the encroachments of the whites on their hunting grounds, commenced a war of extermination; but by the assistance of neighboring colonies this tribe was subdued (1718), and finally emigrated to the N., and formed a confederation with the Senecas. Other hostile tribes were also reduced to subjection. In 1717 the number of taxable inhabitants did not exceed 2,000, having gained no more than 600 since 1676, a term of 41 years. In July, 1729, during the administration of Governor Everard, Cerolina became a royal government, the king having purchased from the proprietors 1 of their immense domain for £17,500, to which £5,000 was added for arrears of quitrents; the remaining eighth was retained by Lord Carteret, who surrendered his right of jurisdiction, but not of soil. The country was successively governed with indifferent success by Barrington, Johnston, and Dobbs, till 1765, when it had gained considerable accessions to its population from a colony of Presbyterians from the N. of Ireland, who settled in the N. W. part of the state, a party of Moravians who settled between the Yadkin and Dan rivers, and a party of Highlanders who located near Fayetteville. Tryon was the next governor, and early in his administration the contest between the colonies and the home government on the question of taxation began; when the assembly (1769) declared against the right of Britain to tax North Oarolina, while unrepresented in parliament, he dissolved it. During his administration there was a formidable insurrection on the part of a large body of poor uneducated people, who complained of unjust taxation, and finally refused to pay any taxes at all. They called them-selves the "regulators." With 1,000 militia he met 8,000 regulators, whom he defeated, near Great Alamance, a tributary of the Haw, in which some 200 were killed. Out of a large number taken prisoners 6 were executed for high treason. After this defeat the insurgents took the oath of allegiance, and shortly thereafter Tryon was succeeded by Josiah Martin, the last royal governor of North Carolina. Disputes soon arose between the governor and the assembly, and the breach was widened by the persistence of England in taxing the colonists without their consent. The governor sided with the crown, as did the regulators, whom he had conciliated. North Carolina sent representatives to the first continental congress, Sept. 1774, and its delegates united in adopting the declaration of colonial rights, which the assembly approved, and that body also appointed delegates to the next An association for the defence of colonial rights was formed in Mecklenburg co., which took such decided ground as (May, 1775) formally to renounce allegiance to the crown, and to declare their independence of the British connection; but this feeling was not general, and counter-combinations were formed to sustain the royal authority. Alarmed at the threatening state of affairs, Governor Martin retired on board a man-of-war in Cape Fear river, July 17, 1775. A convention was held, Aug. 20, which authorized the raising of 3 regiments of troops, subsequently increased to 5, and taken into colonial pay by congress. proclamation was issued by Gov. Martin from on board ship forbidding their meeting, which the convention denounced as scandalous and scurrilous, and ordered it to be burned by the hangman. The loyalists were quite strong, especially among the regulators and Highlanders. A body of 1,500 loyalists, under McDonald and

McLeod, who had b attempted to reach ton, but were met by and Moore, and routes w بغوا and 850 prisoners, common men were retained. In April, 1110, we convention authorized their del with the other colonies in a declar pendence, which took place in the follow, North Carolina ordered 4 more rebe raised, and the Highlanders and regu to be disarmed. In Dec. 1776, the provi adopted a state constitution, and elected Richard Caswell as governor. The colony farard Caswell as governor. The colory is nished her quota of men, but, beyond the p tisan warfare between the patriots and loyalist was not the scene of military operations is 1780. Encouraged by the success of the British in Georgia, a party of 700 N. C. loyalise marched to join the royal cause at August. In their march they were attacked by a party of patriots from S. O., under Col. Pickens, who routed them, killing their leader, and capturing a number of prisoners, 70 of whom were tried and convicted of treason, and 5 of the most in-fluential actually hanged. In 1760, 2 large perties of loyalists rose in arms, one of which attacked and dispersed by Gen. the other, 800 strong, reached time Oct. 9, 1780, a body of loyalist Gen. Ferguson, were met at Kin by a party of mounted backwown Shelby and Sevier, and defeated engagement, with the loss of 150. ing Ferguson) and a grea The survivors (800) surrelment active and obnoxious of whom were upon the spot. The only engagement of an in the colony after this affair, until the conci-sion of peace, was the battle of Guilford Cor House (March 15, 1781), though much ski ing was carried on between small p alists and patriots. The fo Gen. Greene at Guilford men, of whom 1,600 were coulin remainder mainly undisciplined ... British, under Cornwallia, were troops, about 2,000 strong; and the engagement was the defeat of Un British loss on the field was upv and the American something moreturned home. The constitution of formed in 1787, was rejected by No lina in 1788, but finally adopted in 1 CAROLINA, South, one of the

CAROLINA, SOUTH, one of the southern states of the American Union, large tween lat. 32° and 35° 10′ N., and long 78° 85° and 83° 30′ W. The state has the form of an irregular triangle or wedge, with the coast line for its base, and Georgia and North Carolina for its converging sides. Its extreme length from Little River inlet on the E. to Chatter river on the W., is about 340 m., and its greatest breadth, from the mouth of Extreme large.

to the North Carolina line on the N., m., including an area stated by Gov. at 30,213 sq. m., or 19,336,320 acres. nded on the N. and N. E. by North S. E. by the Atlantic ocean, and S. W. wannah river, which separates it from

It is divided into 30 districts, simie counties in other states, viz.: Abbederson, Barnwell, Beaufort, Charlesster, Chesterfield, Clarendon, Colleton,
n, Edgefield, Fairfield, Georgetown,
le, Horry, Kershaw, Lancaster, Lausington, Marion, Marlborough, Newangeburg, Pickens, Richland, Spartannter, Union, Williamsburg and Yorkn, the chief city of the state, and one
ost important seaports in the southern
slumbia, the capital of the state, Beaurgetown, Hamburg, Camden, Greenater, Spartanburg, Cheraw, Blackville,
Winnsborough, Anderson, Yorkville,
r, are the more prominent towns of
arolina.—The following table shows

x, are the more prominent towns of arolina.—The following table shows lation of the state at the several denumerations since and including 1790:

Whites.	Free colored.	Slaves.	Total pop.
140,178	1,801	107,094	249,073
196.255	8,185	146,151	845,591
214,196	4,554	196,865	415,115
287,440	6,826	258,475	502.741
257,863	7,921	815,401	561,185
259.064	8,276	827,088	594,898
274,563	8,960	884,984	668,507
274,563	8,960	884,984	669

hite population in 1850, 137,747 were nd 136,816 females; 6,452 were less ar of age; under 5 years, 41,509; 5 and 40,577; 10 and under 15, 86,974; 15 r 20, 30,262; 20 and under 30, 47,307; inder 40, 30,807; 40 and under 50, 50 and under 60, 13,673; 60 and under ; 70 and under 80, 3,372; 80 and un-117; 90 and under 100, 210; 100 and 29; unknown 81. Deaf and dumb, id, 150; insane, 224; idiotic, 249. the state, 253,399; in other of the tates, 12,601, of whom 6,173 were North Carolina, and 1,621 in Virforeign countries, 8,508, of whom re born in Ireland, 2,180 in Gerl in England, and 651 in Scotland: 55. Of white and free colored there 137 families, occupying 52,642 dwell-the slaves, 187,756 were males, and emales, and 167 were over 100 years If the free colored, 4,131 were males, females; 10 were over 100 years old. ers in the state, 25,596, of whom 3,492 1 slave; 1 and under 5, 6,164; 5 and 6,311; 10 and under 20, 4,955; 20 50, 3,200; 50 and under 100, 990; under 200, 382; 200 and under 800, and under 500, 29; 500 and under 1,000 and over, 2. Deaths in the 150, 8,046, of whom 5,167 were slaves; (free pop.), 2,005; births, 6,607. The as of the free male population over 15

years of age in 1850 were: commerce, trade, manufactures, mechanic arts, and mining, 18,-205, of whom 7,009 were employed in manufacturing establishments; agriculture, 41,803; labor not agricultural, 8,151; sea and river navigation, 846; law, medicine, and divinity, 1,829; other pursuits requiring education, 8,161; government civil service, 872; domestic servants, 149; other occupations, 84; total, 68,549. Paupers in the state, 1,318, of whom 829 were of foreign birth; annual cost of support, \$48,337; convicted of crimes in 1850, 46.—Savannah river, which forms the boundary between South Carolina and Georgia, is formed by the confluence of the Tugaloo and Keowee, which rise in the mountains near the line of N. C., and unite at Anderson, in the N. W. part of S. C., and flowing thence in a S. S. E. direction 450 m., empties into the Atlantic 18 m. below Savannah, near lat. 82° N. and long. 81° W. It is navigable for large vessels to Savannah, and for steamers of 150 tons to Augusta, 230 m., and by means of a canal round the falls at Augusta smaller boats ascend 150 m. further. The other principal rivers are the Great Pedee, the Santee, and the Edisto. The former, which rises in the Blue Ridge, flows N. through North Carolina, where it is called the Yadkin, passes through the E. portion of S. O., and being enlarged by the waters of Lynch's creek and the Black river on the right, and the Little Pedee and Waccamaw on the left, empties into Winyaw bay. It is navigable for steamboats to Cheraw, a distance of about 150 m., above which navigation is obstructed by a fall. The Santee is formed by the junction of the Congaree and Wateree, which by their tributaries rise in the Blue Ridge (W. part of N. C.), flow S, and unite in the central part of S. C.; the stream thus formed, taking the name of the Santee, and flowing about 100 m. in a S. E. direction, reaches the Atlantic by 2 mouths, North and South Santee, a few m. S. W. of Winyaw bay. The principal tributaries of the Congaree are the Saluda and Broad rivers. The Santee is navi-gable for its entire length, and its tributaries, Wateree and Congaree, by aid of canals, are navigable for small craft nearly to the mountains about 200 or 800 m. from the ocean. The Edisto and Combanee rise in the interior, and flowing S. reach the Atlantic near the southernmost point of the state. These streams are 100 to 240 m. in length, and navigable for very small craft. The state is remarkably well watered, and almost every district abounds in good sites for manufacturing by water power.—The coast-line of South Carolina extends from Little River inlet, in a S. W. direction, to the mouth of the Sevannah river, about 200 m. The coast presents numerous inlets, bays, shallow sounds and la-goons, and a few good harbors. Winyaw bay, the easternmost harbor of any note in the state, is 14 m. long, and about 2 m. wide. town is situated at the head of this bay, to which vessels of light draft ascend. Passing S. W., Bull's bay is next in order, then Charles-

ton harbor, St. Helena sound, and Beaufort harbor, or Port Royal Entrance, beside a number of small inlets. Charleston harbor, where the principal commerce of the state centres, has a difficult sand-bar at its entrance. Beaufort harbor, which admits vessels of 24 feet draught, is one of the best in the southern states. Stone inlet, a few miles S. of Charleston, admits vessels drawing 9 or 10 feet of water, and was resorted to during the blockade of Charleston in 1775. St. Helena sound, is a spacious opening 10 m. long and 3 broad. A number of small islands skirt the S. coast of the state, which are shut off from the mainland by narrow channels, which afford inland steamboat communication between Charleston and Savannah. These islands are low and flat, and produce the black-seed or sea-island cotton, the best known to commerce. Rice is also here produced in large quantities, and tropical fruits begin to flourish.—The topography of the state resembles that of the other states along the S. E. coast, but the mountainous district is not relatively so large as that of North Carolina. The coast for about 100 m. inward is flat and sandy, with a light soil, covered by pitch-pine forests, traversed by sluggish streams, and interspersed with numerous swamps. This portion of the state is of alluvial formation. Beyond this plain is a belt of low sand-hills called the middle country, which is moderately productive. West of the middle country is a belt called the ridge, where the land rises abruptly, and thence continues to ascend, exhibiting beautiful alternations of hill and dale, till it terminates at the extreme N. W. part of the state in the Blue Ridge, the highest peak of which, in this state, is Table mountain, 4,000 feet above the Atlantic. King's mountain, in York district, on the line between North and South Carolina, is an isolated mountain of considerable prominence. South Carolina has a great variety of soil, very little waste land, and produces cotton, rice, tobacco, maize, oats, rye, barley, sweet and Irish pota-toes, peas, beans, &c. "The soil of the state," toes, peas, beans, &c. "The soil of the state," says Gov. Seabrook, "though of every kind, may be said to comprehend 6 varieties, each the best suited to a certain crop, yet all of them capable of advantageously producing ‡ of the vegetable products grown in its limits." The 6 varieties here referred to are: 1, tide swamp, appropriated to the culture of rice; 2, inland swamp, to rice, cotton, corn, peas, &c.; 3, salt marsh, to long cotton; 4, oak and pine, to long cotton, corn, potatoes, &c.; 5, oak and hickory, to short cotton, corn, &c.; 6, pine barren, to fruits, vegetables, &c. The pine lands, embracing about 6,000,000 acres, are perhaps the most neglected section of the state. "The swamps," says Gov. Seabrook, "covering 2,000 sq. m. (1,280,000 acres), of inexhaustible fertility, are capable of thorough and economical drainage, and conversion into active and available capital." The state is nearly equally divided between the primary and alluvial formations; the former, of which oak is the natural growth, is broken

and hilly. The soil of ma of the state is clay, which, diste vicinity of the oc n almost versal substratum.—The good-bearing the Atlantic slope extend through the tion of S. C., where the precious metal found in sufficient abundance to relabor of the miner. In several ca nuggets of pure gold have been fo gold-bearing veins have been su worked; those of the Dorn mine hav the most productive of any this side of t mountains, but the largest quanti have been obtained from surface wa ore of a good quality is also found in a in the same section of the state, but the have not as yet been very extensively The granitic formations (upper count great abundance of building material. the beautiful granites of the state, Tuomey, "the porphyritic granite or and Buffalo creek, and the red gra Columbia, are conspicuous. Of the those found in Abbeville, Fairfield, an ton are the most beautiful. The f sembles the Quincy granite, and the remarkable for its white feldspar, c so strikingly with the black cryst-blende." White and variegated imfound in Spartanburg and Laurens of a quality sufficiently slaty to be flagging-stones, has been discovered ens and in the lower part of Yorl Porcelain earth abounds through th regions, wherever the felspathic i found in a state of disintegration. of fine quality exists in several loc and yellow ochres abound in Chesa Coal has not been found in trict and the rock formations do not we hope that it exists there.—In regard t S. C. is favorably situated between tl heat of the tropics and the frigid te of the N.; and while the state grows quite all the vegetable products of the perate zone, it also produces to tropical fruits, though early sometimes render the latter a law The climate varies, of course, according vation. The mean temperature of (is stated from 8 years' observation a There are 16,217,600 acres of farmi the state, of which the census of 4,072,551 as improved. Farms and p 29,967, averaging 541 acres each; plan ing over 10,000 acres each, 16; farms and plantations, \$89,481. implements and machinery, \$4,136.3 age value of farms, \$2,751; of imp machinery, \$138; cotton plantati ing 5 bales and over, 11,522; rice producing 20,000 lbs. and over, 446. farms of the state were 97,171 h asses and mules, 193,244 milch working oxen, 568,935 other case sheep, 1,065,503 swine. Value of -

)15; of slaughtered animals, \$3,502,687. at product was 1,066,277 bush.; rye, oats, 2,822,155; maize, 16,271,454; atoes, 186,494; sweet, 4,887,469; bars; buckwheat, 283; hay, 20,925 tons; ed, 376 bush.; butter, 2,981,850 lbs.; 1,970 lbs.; peas and beans, 1,026,900 roduce of market gardens, \$47,286; products, \$35,108; beeswax and honey, bs.; value of poultry (1840), \$396,864; ide manufactures, \$909,525; wood, 340), 171,451; cane sugar, 77,000 lbs.; , 15,904 galls.; ginned cotton, 120,-lbs.; rough rice, 159,930,618; tobacco, wool, 487,233; silk cocoons, 123; 80 galls.; value of family goods (1840), I. The average product of the state per wheat, 8 bush.; maize, 11; oats, 12; io lbs.; seed cotton, 820 lbs.; peas and bush.: Irish potatoes, 70. Manufac-3 bush.; Irish potatoes, 70. tablishments in the state, 1,481; capital ,\$6,056,865; raw material used, \$2,809,ids employed, 7,009; annual wages paid, 32; annual product, \$7,063,513; profit, r cent. Of these establishments, 18 were factories, capital \$857,200, cotton used les; 6 were manufactories of iron castings, \$185,700; value of material used \$29,-duct \$87,683; 18 distilleries and brewspital \$3,475, corn used 18,100 bush. and high wines produced 43,900 galls. xports of the state for the year ending 1857, were \$16,140,403, of which \$12,the produce of foreign countries; exu American vessels \$10,590,778, in forels \$5,549,630. Imports for same year, 36, of which \$1,720,616 were in Amer-\$299,170 in foreign vessels. Tonnage 153,002; in American vessels 105,000, 47,940. Number of vessels cleared which 262 were American. Tonnage 127,585, of which 83,205 tons were in n vessels. Number of vessels entered thich 198 were American. During the 7, 6 vessels were built in the state, 2 of ereschooners and 4 sloops; total tonnage -Among the curiosities which invite the of the tourist, the most prominent is ountain, 4,000 feet above the sea, and oms up perpendicularly on one of its 00 feet above the surrounding country. has been erected at its base, and it has omewhat famous as a place of fashiona-"Cæsar's Head," a rock projection from its resemblance to the human crad on the summit of which is a house of ment, is also a place of summer resort cinity of Table Rock. Glenn's Spring, ers of which are impregnated with and sulphur, is a watering place of te in Spartanburg district. The falls te in Spartanburg district. aluda among the mountains have, acto Professor Tuomey, a descent of from 30 feet, and the region presents much nd picturesque scenery.-Among the stitutions of the state is a lunatic asylum

at Columbia, which is richly endowed, and is under the control of the state. On Nov. 5, 1855, there were 187 patients in this institution, of whom 100 were males and 87 females; 89 were paupers, and 98 pay patients. Receipts during the year, \$39,230 99; expenditure, \$38,-087 67; discharged cured during the year, 22; removed, 11; died, 18. An asylum for the deaf and dumb at Cedar Springs, in Spartanburg district, is under the patronage of the state. The orphan asylum at Charleston is richly endowed, and has accommodations for 250 children. The state provides annually for the education, at the South Carolina college, of one youth from this asylum, to be selected as a reward of merit by the commissioners.—The census of 1850 reports 16 public libraries with 73,758 vols., 8 school libraries with 2,750 vols., and 7 college libraries with 80,964 vola.; also 46 newspapers, of which 10 are miscellaneous, 5 neutral, 24 political, 5 religious, and 2 scientific. Of these papers 7 are published daily, 5 tri-weekly, 27 weekly, and 5 semi-monthly. The aggregate circulation of these papers was, 55,715; annual number of copies issued, 7,145,-980. There are 8 colleges in the state, with 48 teachers and 720 students; annual income \$104,-790, of which \$41,700 is from the public funds, \$9,650 from endowments, and \$58,440 from other sources. The S. C. college at Columbia is a state institution, with 8 professors, and a library of 25,000 volumes. Academies and private schools, 202; teachers, 383; pupils, 7,467; annual income, \$205,489, of which \$226 is from the public funds, \$8,700 from endowments, and \$196,568 from other sources. Public scheels (1850), 724; teachers, 789; pupils, 17,838; annual income, \$200,600, of which \$85,972 was from the public funds, \$3,000 from endowments, \$1,200 from taxation, and \$160,427 from ethe sources. Total number attending school in 1850, as returned by families, 40,878, of whom 21,792 were males, and 18,581 females; number of children between 5 and 15 years of age, 77,551; adults who could not read and write, 16,564, of whom 880 were free colored, and 104 of foreign birth. The school system of the state has been improved somewhat since 1850. The state now (1858) appropriates \$74,400 annually to free schools, which is distributed at the rate of \$600 to each representative in the popular branch of the legislature. Academies have been established. called arsenal and citadel academies, in which the youth are practically educated in military tactics, and in engineering and surveying. -The cens returns 1,182 churches in the state, of which 413 are Baptist, 484 Methodist, 186 Presbyterian, 73 Episcopal, 41 Lutheran, 5 Free, 3 Jewish, 14 Roman Catholic, & Universalist, 1 each Congregational, Friends, and Unitarian, and 8 of minor sects. Total value of shurch property in the state, \$2,172,246, viz.: Baptist, \$393,-863; Episcopal, \$616,950; Methodist, \$341,168; Presbyterian, \$483,175; Congregational, \$70,-000; Free, \$1,700; Friends, \$500; Jewish, \$83,-700; Lutheran, \$109,500; Roman Catholic, \$78,-

of C

815; Unitarian, \$80,000; Universalist, \$6,000; minor sects, \$57,875. The churches afford accommodation for 460,450 persons, viz.: Baptist, 165,850; Congregational, 2,000; Episcopal, 28,-940; Free, 1,550; Friends, 500; Lutheran, 14,-750; Methodist, 165,740; Presbyterian, 67,765; Roman Catholic, 6,030; Unitarian, 700; Universalist, 950; minor sects, 3,320.—The first state constitution was formed in 1775, and the present one was adopted in 1790. It vests the executive authority in a governor, who is elected for 2 years by a joint vote of the legislature, at each first meeting of the house of represent-The governor is ineligible to the same office for the next 4 years after the expiration of his term. He receives \$3,500 per annum, A lieutenant-governor is and house rent. elected in the same manner, and for the same term, who acts as governor in the case of the death or removal from office of the governor. Presidential electors are also chosen by joint vote of the legislature. The legislative authority is vested in a general assembly, consisting of a senate of 45 members, who are elected by districts for 4 years, one half biennially, and a house of representatives of 124 members, apportioned among the several districts, on a basis of white inhabitants and taxation, elected for 2 years; this body and one-half the senators being elected every second year, on the 2d Monday in October, and the day following. bers of the legislature receive \$3 per diem, and 10 cents per mile travelling fees. The general assembly meets annually on the 4th Monday in November, at Columbia. South Carolina has 6 representatives in the popular branch of congress.—The judicial power is vested in such superior and inferior courts of law and equity as the legislature shall from time to time establish. The judiciary of the state is at present (1858) as follows: 1. The law court of appeals, and equity court of appeals; the former consisting of all the law judges, for hearing appeals from the courts of law, and the latter of all the chancellors, for hearing appeals from the courts of equity; two sessions are held at Columbia and one at Charleston annually; 2. courts of equity, presided over by 4 chancellors, who take cognizance of all matters belonging to a court of equity, as contradistinguished from a court of law; a term is held by one chancellor annually in each district except Charleston, where 2 terms are held; 8. **courts** for the correction of errors, consisting of all the judges in law and equity, to try constitutional questions, or questions where the law and equity courts are divided; 4. courts of common pleas and general sessions, having original jurisdiction in all civil cases where legal rights are involved (except matters of contract where the amount is \$20 or under), and in all criminal cases affecting free white men, appellate jurisdiction in all appeals from magistrates' courts, and in appeals from the court of ordinary in all cases except in matters of account; these courts are held in each district twice annually; 5. city court

Court, in 68cm istration, prol ters of contract for \$20 and under; 8. w of magistrates for the trial of slaves and free persons of color for criminal offences.—The actual debt of the state on Oct. 1, 1856, wast. 693,276 50, consisting of 8, 5, and 6 per cent. to stocks and bonds, on which the annual interestis \$149,527 88. The state has subscribed \$ 000 to the stock of the Blue Ridge railroad co. yet to be called for, which will increase in debt to \$3,293,276 60, and the annual interest to \$179,527 88. The state also ows a terest to \$179,527 88. contingent debt of \$4,051,422, of which \$1. 051,422 is U.S. surplus revenue deposit, \$2,000. 000 guarantee of the bonds of the S. C. railread co., and \$1,000,000 guarantee of the bonds of the Blue Ridge railroad co. The new capital will create an additional debt, which is to be covered by a 6 per cent. stock. The assets of the state amount to \$6,243,114 54, viz: the surplus sets of the state bank \$4,500,814 54, and stock in various railroad companies \$1,742,309. The receipts into the state treasury for the year end ing Sept. 30, 1856, were \$593,962; balance, Oct. 1, 1856, \$136,809 64, making the total mas \$730,771 64. Total expenditure for the year \$591,145 98; balance, Oct. 1, 1856, \$139,925 66 The chief sources of income were: taxes, \$501,771 87; dividends on rai shares, \$14,582; new state capitol, \$73,575 t The principal items of expenditure were: tary academies, \$30,010; new state capital \$71,514; free schools, \$77,539; jures as constables, \$30,906; public buildings, \$53,165; salaries of public officers, \$80,090; Charleson harbor, \$42,196; legislative certificates \$15,99 The subjects of taxation in 1856 were: \$87,319 slaves, \$290,488 50; 2,934 free negroes, \$5,866; sales of merchandise, \$58,842; faculties, professions, &c., \$10,794; banks and bank stort. \$25,679; premiums of insurance cos., \$3.556; town lots, \$73,665; 17,443,791 acres of land valued at \$10,284,001, \$61,703; total, \$52,744.—On Jan. 1, 1857, there were 20 banks and branches in the state; capital, \$14,837,643: loans and discounts, \$28,227,870; specia, \$1. 197,774; circulation, \$10,654,659; departs, \$3,502,733.—On Jan. 1, 1857, S. C. had 74 m. of railroad built, viz.: 8. C. railway, from Charleston to Augusta, Ga. (with branch Camden and Columbia), 233 m. long or paid in \$4,200,000; debt, funded and for \$2,750,000, cost of construction and e \$7,150,000; Charlotte and S. C., from C N. C., to Junction near Columbia, S. O., 10 capital \$1,201,000, debt \$880,000, cas struction and equipment \$1,720,000; Graville and Columbia, from Columbia to Graville ville 166 m., capital stock \$1,286,000, \$970,000, cost of construction and easi, \$2,000,000; N. Eastern, from Charleste

ence, 102 m., where it intersects the Wiln and Manchester railroad; Cheraw ngton, from Florence to Cheraw, 40 are several other shorter roads in tauc, amounting in all to 75 m. There are several other roads in course of construcusi and in contemplation. Of the former are Blue Ridge road extending from Aiken, J. (where it intersects the S. C. road) in a W. direction to Knoxville, Tenn., and the n and Savannah, designed to unite aues by a route a few miles back from wast; of the latter a road along the coast un Charleston to Wilmington, N. C., from N. E. to Raleigh, N. C., from Spartanr. W. to Ashville, N. C., from Green-N. to Ashville, and from Greenville N. w Waynesville, N. C.—The first attempt at il colonization in S. C. was made by , of French Huguenots under John Riwho was sent out with 2 ships in on a voyage of exploration to Florida. aving discovered in May of that year the iver St. John's, which he named the river of he coasted northward, and finally entered sions inlet which he named Port Royal, ou an island in this harbor built a fort, Carolina, after Charles IX. of France-a afterward extended to the circumjacent y, and still retained by 2 of the American He left here 26 colonists, and returned w supplies; but soon becoming dissatisfied, tinied, killed their commandant, and up a rude craft, sailed for France. ring very great hardships, they were picked "y an English vessel, and taken to Europe. next, and first permanent settlement in S. C. le by English colonists at Port Royal u Charleston, on the W. side of Ashley river, again in 1680 to the present site of Charles-Under the name of Carolina, both the states were held as a proprietary governnominally under the celebrated model conmunon, prepared by John Locke, till July, 1729, hen the king bought out the proprietors, and med the Carolinas into 2 separate royal col-In 1685 a large number of French iguenots settled in S.C., and subsequently there re considerable settlements of Swiss, Irish, l German emigrants. The colony, at various ies, suffered severely from Indian depredations, I was with Georgia engaged under Oglethorpe a contest with the Spanish settlements in rida. South Carolina was the scene of severe rfare during the revolutionary struggle, many ly contested battles being fought with varysuccess, viz.: at Fort Moultrie, Charleston, nden, King's Mountain, Eutaw Springs, Cowis, &c. The British held the country for the ater part of the years 1780 and 1781. y severe battle of Eutaw Springs, Sept. 1781, ween Gen. Greene and Col. Stuart, in which es claimed the victory, was the last en-ment of any importance during the revolu-

mry contest. Since the revolution, South

Carolina has grown into a wealthy and prosperous state, has taken an active part in national affairs, and furnished many eminent statesmen

and legislators.

CAROLINA MARIA, queen of Naples, daughter of the Austrian emperor Francis I. and Maria Theresa, born Aug. 18, 1752, died at Schönbrunn, Sept. 8, 1814, married, Aug. 12, 1768, Ferdinand IV., king of the Two Sicilies, over whom she exercised an unbounded influence, which led to fatal results, especially when, in 1784, she prevailed upon the king to appoint her favorite Joseph Acton prime minister. A great share of the odium of Acton's measures fell upon the queen. In 1798, Ferdinand IV., at the instigation of Carolina, declared war against the French republic; but after the defeat of the Austrian army under Mack, the French marched upon Naples, and the royal family was compelled to fly to Sicily, and to put themselves under British protection. Cardinal Ruffo's agitation in Calabria against the French and the Neapolitan republicans, permitted the king to return to Naples in 1799; but here new intrigues were opened by Carolina, who, on this occasion, had the pernicious assistance of Lady Hamilton. In 1805, Carolina joined the coalition against Napoleon, but notwithstanding the assistance given to Naples by Russia and England, she and her husband were again expelled from their dominions. She found in the British general, Lord Bentinck, who was bent on neutralizing her injurious influence, an opponent with whom she was unable to contend. She retired and went to Vienna in 1811, and died before the restoration of Ferdinand IV. to the throne. This queen was notoriously ambitious and anxious to grasp political power, which, however, she was unable to manage, although she possessed a certain degree of ability. CAROLINE. I. An eastern county of Mary-

land, bordering on Delaware, intersected by the Choptank and Marshy Hope rivers; area, 800 sq. m.; pop. in 1850, 9,692, of whom 808 were slaves. The surface is flat and the soil sandy. Productions in 1850, 385,520 bushels of corn, 42,879 of wheat, 17,422 of oats, and 41,864 lbs. of butter. Number of pupils in the public schools, 518. Capital, Denton. II. An eastern county of Virginia, with an area of 480 sq. m.; pop. 18,456, of whom 10,661 were slaves; bounded on the N. by the Rappahannock and intersected by the Mattapony. The surface is diversified, and the soil of the river bottoms is good. Productions in 1850, 629,994 bushels of corn, 178,858 of wheat, and 668,155 lbs. of tobacco. Number of pupils in the public schools, 616; value of real estate in 1856, \$3,362, 938.

Capital, Bowling Green.

OAROLINE AMALIA ELIZABETH, queen of England, daughter of Duke Charles William Ferdinand of Brunswick and the princess Augusta of England, born May 17, 1768, died Aug. 7, 1821. In 1795 she married her cousin the prince of Wales, but in the ensuing year, after she had borne him a daughter (Charlotte),

the prince, who had married her reluctantly, separated from her, and Caroline retired to a residence at Blackheath. Looked upon as the victim of a profligate husband, her position enlisted much sympathy on the part of the people at large, especially as she was known to be of a kind and generous disposition, but at the same time subjected her to serious charges on the part of her enemies. In 1808, George III. instituted an inquiry into her conduct, which absolved her from any positive dereliction of duty, without, however, acquitting her of the imputation of improprieties into which her warm and impulsive temperament was but too apt to lead her. In 1814 she received permission to visit her native town and to travel in Italy and Greece, and subsequently resided chiefly in a villa on the lake of Como. Her relation with Bergami, an Italian connected with her household and who accompanied her in her travels, gave rise to a new series of rumors disparaging to her honor. On Jan. 29, 1820, her husband ascended the throne as George IV., when a pension of £50,000 was offered her on condition that she should never return to England. The queen not only rejected this offer with contempt, but, to the consternation of the court, arrived in England on June 5 of the same year, the masses of the people, who never withdrew their sympathies from Caroline, receiving her with enthusiastic acclamations. A charge of adultery, however, was brought against her by the king before the house of lords, which, as partisan feelings were blended with the intrinsic interest of the case, created the greatest excitement in England. The house of lords, by a majority of 108 against 99, passed a bill of pains and penalties intended to apply to her case; but public opinion was so strongly in her favor, that the prosecution was abandoned by the government, Caroline remaining in the uncontested possession of her rank and title as queen, and living in regal style at Brandenburg house. The trial made the fortune of the lawyers employed on her behalf, the present Lord Brougham, the late Lord Denman, and the recently deceased Sir Thomas Wylde, and others, and furnished for a considerable time rich food to the lovers of scandal. Caroline, however, was deeply affected at the result, and the moral shock received on this occasion accelerated her death, which took place in the ensuing year. The humiliation of seeing the doors of Westminster abbey shut against her, when, in July, 1821, she presented herself to attend the coronation of George IV., was the last blow dealt out to her by her enemies before she died. Her funeral gave rise to disturbances at London and Brunswick, the people attributing her death to her op-Popular sympathy followed her to her grave; not that the people believed in the total purity and innocence of her life, but there was a great unwillingness to place reliance upon any charges emanating from George IV., especially when a queen was concerned whom he had treated with so much revolting brutality.

CAROLINE PINES, one of the z between the P Marshall Islands, and rab from lat. 3° 5' to 12° N., are of 2,000 m. from W. to E., and are numerous groups. The weste Paloas or Pelew, consist of ber of small islands, all of coramits as They are generally flat, and afford be anchorage. North-east of these is the grou Yap, the principal island of which is mou ous and rich in precious metals. The island Egoi, resembling the Paloas in surface and for mation, lie east of Yap; they are fertile is and are partly inhabited. The contenue ence, and has abundant supplies of water, free and fish. The climate of the Carolines is mi and agreeable. The inhabitants, most of wh are of the Malay race, are generally fishern Tire Ceroir and make excellent sailors. were discovered in 1543 by Lopez de Vilelobos, and were named in honor of Charle V. Nominally they belong to Spain as form part of the government of the Phil pines, but there are no Spanish settlements en any of them.

CAROLINE MATILDA, queen of De-mark, daughter of Frederio Lewis, prince of Wales, sister of George III., born July 22, 1781, died at Celle, May 10, 1775, married in 1766 Christian VII., king of Denmark, and in 1766 became mother of King Frederic VI. By her fine personal qualities she endeared hemil w all around her, excepting the queen downer, Sophia Magdalen, and Juliana Maria, the king's stepmother, who were jealous of her is fluence, and treated her with marked hostility. Their dislike to the young queen assumed a sil more formidable character, when Street the physician and special favorite of the quesa rose to supreme power in Denmark, and in ea cert with his royal mistress played into the hands of the liberal party, while the quest dowager and Juliana Maria were fanatical pertisans of the old Danish aristocracy. At the same time grave imputations were cast by then upon the queen's honor, as in 1771 she was delivered of a daughter, which was attributed to an illicit connection with Strueness. ruin of the queen and her favorite was resolved upon by the queen dowager and her party, a on the night of Jan. 16, 1772, during a the court, Struensee, and the queen were are ed. The unfortunate minister and his ari Brandt were sentenced to death, and Co with her little daughter (the future due Augustenburg), barely escaping the sum were consigned to Kronborg castle. B Lord Keith, the British minister at Cope more stringent measures would have b against her; as it was, a separation fr husband King Christian (who by his idiotic condition had long since consed to p sess any personal influence) was acreed u

lelle in Hanover assigned to her as a place sidence, where, worn out by sorrow, she after a few years. A monument has been d to her in Celle. Lenzen has published her last hours, containing the cele-1 retter written by the queen to her romer George III., in which she solemnly asrts her innocence.-

CARON, or CARRON, FRANCISCUS, a Dutch gator, who perished by shipwreck off in in 1674. He was of a French Protfamily which had taken refuge in the ow Countries. He engaged when very young stant cook on board a vessel departing noments of leisure to the study of arithand, after his arrival in Japan, learned ve language. This acquisition renlast India company, and he became director of commerce with Japan, and a member of cil. Colbert was at this time striving ave w France some importance in the comof the East Indies, and sought among ers men capable of seconding his views. haved, Caron accepted letters patent appointhim director-general of the French com-in India; but, at the same time, other and French merchants were joined with with the same title. Caron arrived in 1667

lagascar; but, finding the French offices at nd in hopeless confusion, it was decided w w remain there. He departed for Surat, h seemed a more favorable centre, and beperations there with good success. Several as subsequent plans and operations proved tunate, and his imperious and avaricious racter had also excited many enemies against m at court. The minister was constrained to

him; and, that Caron might not suspect , nostile motive, it was pretended to him that advice was needed with reference to new prises. He immediately embarked for eilles, having on board immense riches, and already passed the straits of Gibraltar, en he was informed, by a vessel which he t, of the disposition entertained concerning 1 at court. He at once turned his ship about I directed his course to Lisbon. He had aldy anchored in this port, when a heavy sea it his vessel against a rock, and it went to bottom with its passengers and cargo. One the sons of Caron alone was saved.

DARONY, or CARONI, a river of Venezuela s in the Sierra Pacaraima, and after a rapid se of about 400 m., broken by numerous

cts, joins the Orinoco.

AROOR, a town of British India, in the cidency of Madras, district Coimbatoor, on Cavery river, lat. 10° 58' N., long. 78° 9' E., m. W. from Trichinopoly. It contains about 00 houses, has near it a fort and a large tem-, and has been in the possession of the Britsince 1760.

JARORA, or Caroro, a town of Venezuela the Tocuyo, in the province of Barquesimeto;

pop. 8,000. It contains a handsome parish church, a hermitage, and a Franciscan convent. The district in which it stands is famous for its aromatic balsams, resins, gums, and a kind of wild cochineal.

CAROUGE, a town of Switzerland, on the Arve, in the canton of Geneva; pop. 5,000. It was ceded to Switzerland in 1816, until which time it had been the capital of the Sardinian province of Carouge, which was sup-pressed in 1837. The town is regularly built, pleasantly situated, surrounded by elegant villas, and connected with Geneva by a bridge. It has manufactures of watches, thread, leather,

and clay pipes.
CAROVE, FRIEDRICH WILHELM, a German
Coblentz June 20, 1789, died in Heidelberg, March 18, 1852. He commenced life as an advocate, held some judicial offices, was made doctor of philosophy by the university of Heidelberg, and officiated for a short time as professor at Breslau. He was one of the founders of the Heidelberg Burschenschaft, or students' secret political association, and participated in the famous Wartburg feetival. He was afterward a member of the provisional German parliament of 1848. His most elaborate works are attacks on the Roman Catholic religion, such as "The Church, which alone works our Salvation," and an "Essay upon the Celibacy of the Catholic Clergy." His pow-ers of criticism are shown in his "Religion and Philosophy in France," "Essay on St. Simonianism," "The New French Philosophy," &c.

CARP, a malacopterygian fish, of the family oyprinids, genus cyprinus, having the body covered with large scales, a single elongated dorsal fin, fleshy lips, small mouth, with a barbel at the upper part of each corner in the common species, and a smaller one above; teeth in the pharynx, but none in the jaws; branchial rays 8; the ventrals behind the pectorals, without any connection with the bones of the scapular arch; the 2d dorsal ray and the 1st anal serrated posteriorly; the tail forked; 12 rows of scales between the ventral and dorsal fins. The C. carpio (Linn.), is of a golden olive-brown color above, yellowish beneath, and the fins dark brown. It inhabits the fresh-water lakes and streams of central and southern Europe, whence it has been spread by man over the northern parts. It is noticed by Aristotle and Pliny, but was not held in much estimation in ancient times; it grows rapidly, lives to a considerable age, and is exceedingly prolific; it seems to have been introduced into England about 800 years ago. They prefer quiet waters, with soft or muddy bottoms, spawning in May or June, according to locality; the food consists of larve of aquatic insects, worms, and soft plants, though they eat almost any vegetable food in artificial ponds. They are very tena-cious of life, and will pass long periods, espe-cially in winter, without food; they afford but little sport to the angler, being very uncertain, and are difficult to take in nets. The size

varies from 1 to 21 feet, and their weight from 1 to 18 lbs.; they are in season from October to April, and are generally considered excellent for the table. Dr. Storer describes the common carp of Europe as having been introduced into New York from France. The gold-fish, or golden carp, is the C. auratus (Linn.). The crucian carp (C. gibelio, Bloch.), is of smaller size, and is considered by some the same as the C. carassius (Bloch.). In this country the name of carp is erroneously applied to some species of catastomus and luxilus, belonging to the same family of fishes.

CARPÆA, among the ancient Greeks, a kind of mimetic dance peculiar to the Ænianes and Magnetes. It was performed by 2 armed men, one representing a ploughman, and the other a robber, in the following manner: The laborer, laying aside his arms, begins to plough with a yoke of oxen, frequently looking around as if in alarm. When the robber at length appears, the ploughman snatches up his arms, and a fight begins for the oxen. The movements are rhythmical, and accompanied by the flute, and at last the victor takes away the oxen and

plough for his reward.

CARPANI, GIUSEPPE, an Italian dramatist and writer on music, born at Villalbese, near Milan, Jan. 28, 1752, died in Vienna, Jan. 22, 1825. Having prepared himself for the profession of the law, he afterward devoted himself to literary pursuits, and produced a great number of plays and operas partly translations and partly original. In 1792 he was editor of the Gazzetta di Milano, and wrote violent articles against the French revolution. He was obliged to leave the city after the invasion of the French, and went to Vienna, where he was appointed censor and director of the theatre. In 1809 he accompanied the archduke John in the expedition against Napoleon. Under the title of Haydine, he published a series of curious and interesting letters on the life and works of his friend Haydn the composer. These letters, published in a French translation as an original work by L. A. C. Bombet, or, as other biographers state, by Beyle (known under the nom de plume of Stendhal), gave rise to a great literary controversy, in which Carpani vindicated his authorship most successfully.

CARPATHIAN MOUNTAINS, a mountain system in central Europe, lying N. and E. of Hungary, which it separates from Poland, Russia, and Turkey. The entire range forms a semicircle about 800 m. long, commencing at New Orsova, on the Turkish frontier of Austria, where it is separated from the Balkan range only by the Danube, and terminating in the lofty rock on which the castle of Presburg is situated. Their breadth varies from 100 to 250 m. The highest eminences are in the E. or Transylvanian section, where the peaks of Poyana-Ruska, Garluvipi, and Buthest, rise to the height of about 9,000 feet. There are parts of this section, however, which have never been explored, and hardly visited by man, and of

which no highest 1 pathians ... pathians as a Carpates of two laws nitz, Gerlsdorf, and Vial up their naked granite vation of over 8,000 fe of the whole Carpathian granite. Sandstone and li at a lower level, and be petrosilex, lava, obsidian, substances, the result of vo action, are scattered in the among the lower ranges. No recent volcanic eruptions, tho No trace questionable evidence of the 6. of fire and water at some t thians stand preeminent amou of Europe in respect to mineraevery metal is produced abune sides. There are mines of Kremnitz and at Schemnitz ... a gold mine at Nagy Ag in Tras has been esteemed the Iron, copper, lead, and in large quantities, and roca deposits throughout both securing us as The Carpathians present 4 zones of ve rising successively. There is region, where the oak, beech, thrive, which reaches to a height of 4,000 feet above the sea. Then the or Scotch fir, appears, and oc 1,000 feet. This is succeeded by and useless moss-pine, which dimias the elevation increases, and at 6,000 feet appears only as a sm scattered patches. The open scattered patches. puse region produce a few blue-be flowers. From the termin pine to the summit, the moun barren and dreary look, their con being of naked rock, or covered lichens; yet even at these l ts. . blue-bell or gentian may a None of the Carpathians are con petual snow. Numerous passe these mountains facilitate tween the countries lyi most remarkable and arouse those of Teregova, leadi Temesvar; of Vulcan. fo Temesvar; of Vulcan. which the Schyl flows; in a gorge formed by the Alot Mt. Szurul. This pass v Bem's most brilliant en lutionary war of Hu were strongly forti 1 w of the Turks into an them have, nevertheles, as forced.

CARPATHUS, the ancient name of the identified of Scarpanto, lying between Rhodes and Crute about 30 in. from the former. Hence the surrounding sea was called Mare Corpathian. OARPENTER, LANT, LIAD, as English University

inister, born at Kidderminster, Sept. 2, d April 5, 1840. He was of a Nonconamily, and on the death of his father sted and educated by Mr. Pearsall, a relhis mother. Designed for the ministry, ent in 1797 to the Northampton acad-'hat school being temporarily disconoung Carpenter was placed at Glasgow where, however, he did not continue h of time necessary to take his degree. college in 1801, he spent some time ng, and as librarian of the Athenseum, While at the academy he became, on with many of the students, obnoxthe trustees, on account of doctrinal ts far from the reputed standards of ty. This defection of the students was ause of the suspension of the school. pool, Carpenter's views were so clearly thy with those of the Unitarian denomgenerally, that he received several into the pastoral charge of Unitarian itions, and a call to a professorship in llege at York. In 1805 he finally accall to succeed Dr. Thomas Kenrick at where he continued for 12 years. suniversity of Glasgow gave him the de-LL.D., although he had applied only for se of M. A. From Exeter he removed to ral charge of the Unitarian congregation d (1817), where he continued until his hich occurred by falling from a vessel Naples and Leghorn, while on a tour ealth. The body afterward floated on

Porto d'Anzo, the ancient Antium, paried on the seashore. Dr. Carpeny was of an eminently practical turn. ruction of children was an object of interest. Amid all his pastoral and labors, which were ardnous above most men, he always found time and to devote to juvenile instruction, and, inst the prejudices of his congregations, ed Sunday schools among the children and Bristol. An instance of his love of on is recorded in his biography, which r of notice, both for the evidence it his character, and as an interesting Sunday school history. His guardian, sall, had established at Kidderminster, sously with Robert Raikes at Glouces nday school for the instruction of the of the working classes. Carpenter but 11 years of age; but his practical I not overlook the opportunity for a ster service he could render to those

They went to their work at 5 o'clock rining. He therefore assembled them at every day in the week, and gave them a arithmetic an hour before the time of ily toil. These lessons were given in mer under a mulberry tree, and in a summer-house, without any fire. In oral charges at Exeter and Bristol, he we in cooperation with others in the ment of libraries, schools, savings

banks, and institutions for general improvement and welfare. His published works are mainly theological and doctrinal, in support of the Unitarian sentiments he had early espoused. Among his more important works are "An Introduction to the Geography of the New Testament," "Unitarianism the Doctrine of the Gospel," "Examination of the Charges against Unitarianism," "Harmony of the Gospels," and a volume of sermons. Mild in controversy, faithful in humane labors, and practically devoted to the improvement of society, Dr. Carpenter was respected even by those who were his most decided antagonists in theology.

CARPENTER, WILLIAM BENJAMIN, an English physiologist, son of the preceding, born in the early part of this century, was originally intended for an engineer, but graduated as doctor of medicine at Edinburgh in 1839. One of his earliest papers, published in the "Edinburgh Medical and Surgical Journal," was on the "Voluntary and Instinctive Actions of Living Beings," and in these and other early papers he laid the foundations of those views which he afterward developed more fully in his "Principles of General and Comparative Physiology, intended as an Introduction to the Study of Human Physiology, and as a Guide to the Philosophical Pursuit of Natural History" (8vo. London, 1839). This work was deemed a most remarkable production for so young a man. A 8d edition appeared in 1851. After receiving his diploma in Edinburgh, he settled in Bristol, with a view of practising his profession, but accepted an appointment as lecturer on medical jurisprudence in the medical school of that city. In 1843, and subsequent years, he wrote the "Pop-ular Cyclopædia of Science," embracing the subjects of mechanics, vegetable physiology and botany, animal physiology and zoology. These were professedly compilations, but they are well written, and contain original views on many points of interest. In 1846 he published his work on the "Principles of Human Physiology," which reached a 5th edition in 1855. Dr. Carpenter may not have repeated all the experiments of other observers, but he is able to appreciate correctly the facts observed by others; and in those departments of physiology and biology which lie beyond the region of experiment, and demand the more subtle analysis of a logical mind, the science of physiology, observes his English biographer, has probably no more accomplished exponent. In 1854 a 4th edition of his "Principles of Comparative Physiology" was published, to be followed by the "Principles of General Physiology," in 1 volume. These 2 works, with that "On Human Physiology," form 3 independent volumes comparing the whole range. dependent volumes, comprising the whole range of biological science as at present known. The articles on the "Varieties of Mankind," the "Microscope," on "Smell," "Taste," "Touch;" on "Sleep," "Life," "Nutrition," and "Secretion," published in the "Cyclopedia of Anat-

omy and Physiology," are also from the pen of Dr. Carpenter. Having written much as a popular disseminator, as well as an original investigator of science, he has been accused of being a plagiarist and mere compiler. In answer to this charge, he claims, in the preface to the 8d edition of his "General and Compara-tive Physiology," the following facts and doc-trines as his own: 1. The mutual connection of vital forces, and their relation to the physical. This doctrine is fully developed in a paper on the "Mutual Relations of the Vital and Physical Forces,"in the "Philosophical Transactions" for 1850. 2. The general doctrine that the truly vital operations of the animal as well as the vegetable organism are performed by the agency of untransformed cells, which was first developed in an "Essay on the Origin and Functions of Cells," published in the "British and Foreign Medical Review" for 1843. 3. The organic structure of the shells of mollusca echinodermata, and crustacea, of which a full account is contained in the "Reports of the British Association" for 1844 and 1847. 4. The application of Von Baer's law of development from the general to the special, to the interpretation of the succession of organic forms presented in geological time. 5. The relation between the 2 methods of reproduction, that by germation and that by sexual union, with the application of this doctrine to the phenomena of the so-called "alternations of generations;" first developed in the "Brit-ish and Foreign Medico-Chirurgical Review" for 1848 and 1849. 6. The relation between the different methods of sexual reproduction in plants; first developed in the "British and Foreign Medico-Chirurgical Review" for 1849. 7. The application of the doctrine of reflex action to the nervous system of invertebrata, especially articulated animals; first developed in the author's prize thesis, published in 1839. 8. The functional relations of the sensory ganglia to the spinal cord on the one hand, and to the cerebral hemispheres on the other.—In 1856, Dr. Carpenter published his work "On the Microscope, its Revelations and its Uses" (a 2d edition appeared in 1857), in which he displayed the same industry, accuracy, and impartiality as in his other writings. A new and thoroughly revised edition of his work on "Zoology" appeared in 1857. He has also published several interesting papers on the fossil forms of the family of foraminifera, and is said to be preparing a work on the structure, functions, and general history of this group of animals, for publication by the Ray society. He is now professor of medical jurisprudence in university college, London; lecturer on general anatomy and physiology at the London hospital and school of medicine; examiner in physiology and comparative anatomy in the university of London. In 1844 he was admitted a fellow of the royal society. In 1849 he gained the prize of 100 guineas offered for the best essay on the subject of "Alcoholic Liquora." This essay

was published ularity among au among the adv Carpenter was "British and Foreign view," and while thus occupie he was also much engaged in lecturi not an orator, nor even a fluent speal is always master of his subject, and by a and methodical explanation of the faces principles of which he treats, his sadi always deeply interested. In private life he is a man of simple and ingenuous deportme loved and respected by all who know him. On Sunday mornings he performs gratuitously the functions of organist for a small Unitaries emgregation at Hampstead, near London.— RUSSELL LANT, a brother of the preceding officiated for some time as Unitarian mini at Birkenhead, and more recently at Hall, an is author of a volume of sermons and of t memoirs of his father.—Phillip, another best er, is minister of the poor at Warringto and author and publisher of many tracts for the poor and ignorant.—MART, sister of the fer-going, a philanthropist, founder and prometer of ragged schools, and juvenile reform schools in Bristol, and one of the lecturers at the rece meeting of the association for the promotion of human science, of which Lord Brougham was author and president. She has also compiled a book, entitled "Morning and Evening Deveand several works of a practical charater.—MARGARET, an English portrait per born at Salisbury in 1798, the daughter of the late Mr. Alexander Reynolds Geddes, who was an accomplished artist. Having enjoyed may opportunities of study, Miss Geddes sent at a early period pictures to the society of sta which were favorably received, especially the study of a boy's head, for which the larger gold medal was awarded. Miss Geddes # paired to London in 1814, and married in 1817 Mr. W. H. Carpenter, who is keeper of the prints and drawings of the British masses. Mrs. Carpenter's productions have for meritoriously for many years at the exhibiti of the royal academy and the British instituti

CARPENTRY, the art of forming combinations of timber for resisting to best advantage the effects of weight and pressure. The subject demands, lst, the consideration of the sizentific principles involved; and, 2d, the presized details of carpenters' work. The forms, which can be but briefly noticed, mainly depend upon the laws governing the strength of materials, and composition and resultation of forces. To calculate the strength of the combinations resort is had to the parallelegram of forces, by the aid of which the resultant presure is readily determined in any system of framing, however complicated. An important rule to be observed is, that stiffness or rigidity of form in any framework is of greater consequence than the comparative strength, as any modification of the latter can always be

nd by varying the strength of the difparts. The triangle being the only the form of which cannot be changed s by altering the proportions of its sides mevident that the rigidity of framework be best secured by the adoption of a r system—that is, by dividing the ng into a system of triangles, by ins or vies and struts. The latter are the mores employed to resist the effects of comion; the former, those of extension. iction must be closely observed in planny system of framework, as a confusion us respect might prove destructive to the work. When a single beam is to be thened by the application of a system of g, the combination is termed a truss, and he wearn is said to be trussed. In all designs raming, this principle is to be borne in mind, men the strength of the weakest point is assumed as the strength of the entire system.— We pass now to the consideration of carpentry mechanical art. The materials are receivy the carpenter in the form of beams, scantwogs, planks, and boards, out of which he constructs the bond timbers, wall plates, and the various elements of floors and roofs. His labors we limited mainly to the skeleton of the structo those portions which are indispensa-to its stability and efficiency; while its tion to the purposes of convenience and sy is intrusted to the care of the joiner, terer, plumber, &c. The tools employed by carpenter are the rule, axe, saw, adze, malchisels, hammers, augers, gouges, hook pins, week line, square, bevel, gauge, compasses, evel, and plumb line. Beside these, which are adispensable, he also occasionally makes use planes, sledge-hammers, gimlets, pincers, settles, wedges, and crow-bars. The operaions he performs are principally scarfing cogging, tenoning, pinning, and Scarfing is a mode of connecting is longitudinally, and is performed by cutaway half the substance of each beam for certain length, bringing the sut portions toer, and fastening them by screws, bolts, or wedges. Where strength only is reand without regard to appearance, beams be lengthened by "fishing," instead of In this, the beams are brought end to d, and lapped on opposite sides with short ces of strong plank, which are secured by which pass through both pieces and the between them. If bolts and straps are applied, this form of joint is as well adaptto resist transverse as longitudinal strains. designing scarfs, the kind of strain to which piece is to be subjected, whether longituditransverse, or a combination of both, is to particularly considered. In the ordinary m no provision is made for resisting longilinal strains, except so far as the bolts may wer this purpose, and also the adhesion or tion of the 2 beams. More elaborate thods of jointing are therefore devised, in

which the resistance of wood to splitting is employed to secure the pieces, which are drawn together by the aid of keys or double wedges. Bolts and straps may also be used to impart additional security. The French scarf has several indentations, and is termed traits ds Jupiter, from its zigzag form suggesting a resemblance to sheet lightning. In scarfing bond and wall plates, it is usual to cut about § through each piece on the upper face of the one and the under face of the other, about 6 or 8 inches from the end, transversely, forming what is called a calf or kerf, and longitudinally from the end from # down on the same side, so that the 2 pieces lap together like a half dovetail. These joints are generally spiked, and it is always required that they shall fall in or under a pier, although the supervening weight of the wall and joists renders it impossible to draw them apart, except by tearing the fibres asunder or lifting the weight. Longitudinal joints are employed when the only pressure to be sustained is a vertical one. They are made quite short, as they are designed only to keep the 2 pieces in the same line. A common mode of forming these joints is to divide the end of each piece into 9 squares; then 5 of these being cut away in one piece and the 4 alternate squares in the other, the 2 beams exactly fit each other. The following summary of practice relative to scarfing is given by Barlow in "Tredgold's Carpentry:" The length of the scarf should be, if bolts are not used—in oak, ash, or elm, 6 times the depth of the beam; in fir (pine), 12 times. If bolts and indents are combined, the length of the scarf should be in oak, ash, or elm, twice the depth of the beam; in fir, 4 times. In scarfing beams to resist transverse strains, straps driven on tight are better than bolts. The sum of the areas of the bolts should not be less than 1 the area of the beam, when a longitudinal strain is to be borne. No joint should be used in which shrinkage or expansion can tend to tear the timber. No joint can be made so strong as the timber itself.—Notching is of 2 kinds, square and dovetailed, and is used in connecting the ends of wall plates, and bond timbers at the angles, in letting joists down on beams and binders, purlines, and principal rafters, &c.—Cogging is a species of notching used principally in connecting the beams to wall plates, a shallow notch of the width of the wall plate being cut out of the under surface of the beam, and a similar notch cut on the wall plate to receive the beam; the 2 notches fitting closely, all motion, whether longitudinal or transverse, is prevented. Flooring joists are often connected with trimmers or main joists in the same general manner, except that dovetailed notclies are employed instead of square. As there is seldom any great amount of force tend-ing to detach the joists from the trimmers, this form of notch may be amply sufficient; but as a rule, dovetail joints should not be employed in corporary when the grain of one piece of

wood crosses that of the other, for the shrinkage of timber is much greater across the grain than in the direction of its length; hence dovetails are apt to wear loose after a time, and throw the entire strain upon the pins or bolts, which were originally employed only to assist the joint. When the grain of both pieces runs in the same direction, dovetails can be employed with advantage, since the shrinkage of one piece is counterbalanced by the contraction of the other, which allows the joint to remain firm. Such cases, however, occur more frequently with the joiner than with the carpenter.—Tenoning implies mortising also, both being required to connect 2 pieces by means of a small projection on one, termed a tenon, and a corresponding cavity on the other, called a mortise. Tenons and mortises must exactly correspond in size. They are generally placed at equal distances from one or the other side or edge of the 2 beams to be connected; usually, too, all angles formed in the process of tenoning, whether internal or external, are right angles. Very short tenons, termed joggles, are sometimes used for preventing lateral motion in 2 pieces of timber, as at the connections of a king or queen post with the principal rafters, or with the struts. With the same view, the ends of king and queen posts are generally tenoned into the tie-beams, and the feet of the principal rafters of a roof are also tenoned into the tie-beam. The pressure in this case being very oblique to the surface of the tie-beam, it is usual to employ bolts and nuts, or, what is better, stirrup irons or straps. In forming mortises and tenons, the latter should be made as large and efficient as practicable, with due reference to maintaining the proper degree of strength of the other piece, which by too large a mortise might be materially weakened. To avoid the danger of too great a mortise and too small a tenon, and also of lessening the efficiency of either of the 2 pieces, in consequence of the tenon being placed too high or too low, it is customary to employ a compound called a tusk-tenon for most horizontal bearings of importance, as to joists and binders, to trimmers, beams, girders, &c. The body of such a tenon is a little above the middle of the end, and runs out from 2 to 4 inches, as may be required. Below it protrudes the tusk, and above it the shoulder is cut down at an obtuse angle with the horizontal line, thus giving to the tenon the strength of the whole depth of the timber above the under tusk, and giving it a bearing in a shallow mortise, while a greater depth of the mortised piece than the tusk rests on receives the body of the tenon, thus protecting its comparatively narrow margin from under-pressure. - Pinning and wedging are resorted to when tenons have to resist not only lateral displacement, but strains tending to draw them from their mortises. In pinning, an oak pin or tree-nail or an iron bolt is driven through both the tenon and the sides of the mortise; or, the tenon being cut

long enough mortised piece, sue | the projecting part. adopted in connec joists to the girder or oists in a In wedging, it is us to the ten w ficiently long to pass just ture piece; a saw-cut being then jecting part, a small wedge is driven an, causes the tenon to expand and completely a the mortise, so that it cannot be withdrawn Fox-tail wedging, employed when the to does not extend entirely through the morti piece, is thus performed: The tenon having been exactly fitted to the mortise, 2 cross sav cuts are made in its end, and small we are loosely fitted in them. In driving th tenon down, the heads of these wedges strike against the bottom of the mortise, and the wedges are thus made to enter the tenon, wh they expand and cause to fill the morties. k is usual in scarfing, cogging, and notching t cut in the shoulder with the saw, and to strike out the cheek with the mallet and chied or with the adze. Tenons are made entirely with the saw. Mortises are usually formed by bering at the ends with an auger, the diam which is equal to their width, and the intervening portions with a ing this in the direction of the s wood. The ends are squared with a just as broad as the width of the n Pins of wood must be split to i nacity, and wedges cut with the these uses straight-grained stuff ferred.—The bearing surfaces of bearing joints should be as large and, when practicable, cut at : the direction of the pressure, piece bears longitudinally upon circular arc, so that the pressure a uted equally over the bearing surface or propping up the walls or floors of a is also performed by the carpenter, v ging or deafening floors, furring down bracketing and cradling for plasteri be performed either by the carpen. as less or greater precision is required. mating the value of carpenters' value of carpenters labor by the square of 100 wherever it will admit of bei and it is customary for the c be measured as soon as compa **32** 1 the joiner and plasterer begin Bond timber, wood bricks, wall are all reduced to cubic feet of tain price per foot, which upon them. The naked floor on the surface from wall to v labor that has been expended to for instance whether the double, or framed; if party-walls, or stairs; in wall plates and partition set and size of the large timbers;

CARPET 475

and nailed to binders or common superficial feet are reduced to estimating the labor and nails in setting the floors; then the floorare rated in cubic feet and without fing is also estimated by the superfor labor and nails, the measure on the common rafters from ridge full description being given of roof and the different tie-beams, straining sills, struts, purlines, pole that may be used in its construction, timated for labor and nails. The ibers are then reduced to cubic feet, ments being taken to the extent of there may be, and the whole valued or. The dimensions of bolts, bars, are taken separately and their are taken separately and their duced. Gutter boards and beams d by the superficial foot, and valued the thickness. Centring to vaults y the square, to apertures in the f walls by the foot, and to camber number. Quartering partitions are 7 the square for labor and nails, and et for the material. Battening to valued by the square, but the stuff with the labor. If planing has been sometimes happens with beams and ces not to be covered by ceiling, it the superficial foot, and beading or ding by the running foot. Someorficial amount for labor and nails unber cannot be obtained, and it is ted with the cost of the timber at cubic foot; and in such cases a dis-st be made between different quanlabor employed in framing a roof, , is much greater than that required amount of timber used for flooring. if labor, too, depends much on the hardness of the timber. The cost ot of the timber should include the it, and expenses of cartage added. cost of 4 superficial feet of sawing wed as a fair average for the diflings; and finally & of this increased waste in cutting and working. A allowance is necessary for scaffoldsting, especially if heavy timbers are onsiderable height. In shoring, as is not consumed, it is usual to use and waste at $\frac{1}{2}$ of the value of if much cut up, or 1 if but little inthis in addition to the charge for ing and lowering. a sort of thick cloth, used princivering the floors of apartments. In a very early period, straw, rushes, coarse materials were used. Imin this, the rushes were plaited into ich, though homely enough in aprved to promote warmth and comigland, where wool was obtained in a kind of coarse woollen cloth was

I nailed to wall plates, and as framed

often seen upon the floors of the gentry. Yet as late as the time of Queen Mary rushes were strewn on the floor of her presence-chamber; though carpets had long before been introduced from the East. In Egypt their manufacture is traced back to a very remote period; and in Persia and other Asiatic countries the art practised by the hand had attained a high degree of excellence long before it was known in Europe. Purple carpets of great beauty were used at the banquets of the ancient Greeks strewed beneath their couches. The Babylonians adopting the art, ornamented their fabrics with figures of men and strange devices of fabulous creatures. These were imported by the Greeks and Romans; and, from what we know of the fabric, it appears to have been rather of the nature of tapestry, than of what we now call carpetsmade by introducing tufts of woollen yarn into a warp stretched in a frame, which are held down by a woof passed over each tuft. Such is the method of carpet-weaving now practised by the Asiatics, the stitches made one by one by the slow and tedious operation of the fingers. The young girls acquire great skill in this work, and their hands and eyes are soon trained to do it with ease and rapidity. But by one of the modern machines 1,000 stitches are sooner made than one by the hand process. In Persia whole families, and even tribes, are employed in carpetweaving. These carpets are, however, of so small a size, that they are little used. They are purchased by travelling merchants, who, in Smyrna and Constantinople, dispose of them to Europeans. Turkey carpets are imported principally from Ouchak, in the province of Aidin, about 6 days' journey from Smyrna. These carpets are also woven by families, and no large manufactory for them exists They are in one piece; the patterns are peculiar, and no two are ever made exactly alike. Their chief beauty consists in the harmonious blending of their colors, and in the softness of their texture, rendering them agreeable both to the eye and to the foot. In the process of manufacturing the weaver sits in front of the loom, and fastens to each thread of the warp a bunch of colored yarn, varying the color according to the pattern. The row being completed, he passes a linen west through the web, and drives it well up, so that all the bunches may be securely fastened. In this way narrow breadths of carpet are made, which are afterward laid side by side, and united, so as to form one large piece. The tufts are then pared of equal length, and being beaten down, the whole presents a smooth, even surface. Rugs are made in the same manner. A superb carpet, com-posed entirely of silk, was sent from Cashmere to the great exhibition in London. In each square foot it contained as many as 10,000 ties of short lengths introduced by hand. In British India the manufacture of carpets is carried on to a great extent. In Benares and Moorshedabad costly carpets of velvet with gold embroidery are made. Silk-embroidered

carpets are manufactured in various places; the woollen ones principally at Masulipatam. For many years Europe received all her supplies of carpets from the East. The manufacture is said to have been introduced into Europe by the French in the reign of Henry IV. The manufactory now belonging to the French government, and still producing excellent fabrics, was established at Beauvais in 1664 by Colbert, minister of Louis XIV. Another larger factory was at Chaillot, a league from Paris, where the carpets were worked in the manner of the modern Wilton carpet. The first successful operations in England were at Mortlake, in Surrey, to which enterprise James I. contributed £2,676. In the middle of the 18th century the business was much extended in different localities, and reference is made to a premium awarded by the society of arts in 1757 to Mr. Moore for the best imitation Turkey carpets. This kind of carpet was afterward largely produced at Axminster, in Devonshire, made even more expensive than the real Turkey by the substitution of worsted for woollen yarn; but the manufacture ceased here, and in York-shire also, many years ago. The other varieties of carpets in use, as the Kidderminster or twoply, called in this country the ingrain, the threeply, the Venetian, Brussels, and Wilton, are all made by machinery. The ingrain, made with 2 sets of worsted warp and 2 of woollen west, consists of 2 distinct webs incorporated into each other at one operation, the warp threads passing from one to the other to bring the required colors to the surface. Each web, however, is a cloth of itself, which, if separated by catting it from the other, would present a coarse surface like baize. Two colors only are used to best advantage in this kind of carpet, the introduction of more tending to give a striped ap-pearance. The three-ply is also ingrained, the threads being interlaced to produce 8 webs, thus making a fabric of greater thickness and durability with the advantage of greater variety of color. The pattern, however, does not apear in opposite colors on the 2 sides in this, as it does in the two-ply. Great difficulty was experienced in applying the power loom to weaving this fabric; in Europe the idea was wholly abandoned; and in 1889 two-ply ingrains were woven at Lowell, Mass., only by the hand loom, at the rate of 8 yards a day to the loom. At this time Mr. E. B. Bigelow, of Boston, imroved the power loom so that he obtained with it from 10 to 12 yards a day, and afterward by still further improvements so perfected the machinery, that the power loom is now wholly used, and with such economy of labor as to have greatly reduced the cost of carpets, and extended their manufacture to meet the increased demand. The inventions of Mr. Bigelow have been so important in this branch of manufacture, as to have given it an entirely new character; and though their full description would be too technical and detailed, a general account of those immediately connected with

should 1 cal, one wanth and produce a good The smooth, even face. any moment tighten the loose after the shuttle has b make the selvage re measurement that by : of the west threads or was a is being produced too lo gives more or less force to . up; and if he finds that the is getting rough, he regulates warps. In this way, by observation, a exercise of skill and judgment, he can a mate, and only approximate, to the pro of a good and regular fabric. In the first Mr. Bigelow produced, he approximated nearly than the hand weaver to a perfect a in the figure; and this he effected by taki the woven cloth by a regular and pos tion which was unerring, the same amous every throw of the shuttle and beat of the As the west threads are not spun reg and the weaving in of the warp three passing the different colors from the us the lower ply or cloth to produce the a sed to r make a given length, he det the delivery of the warps as n tension, thereby throwing the ir. the thickness where it cannot be a of into the length, where it would d match of the figures. He acc suspending a roller on the woven the lathe and the rollers that so that when the cloth 1 short, which indicates ad ut supply of ed, and the roller would be eletion increase the delivery more warps, and vice only to prevent the furtuer e already incurred. The roller, to complish its purpose, should have to the unwoven warps, which practicable, for when the west, these must be rigid to .. no way was apparent to tive to detect and in The warps, moreuv rolled up on the warp-be øi. and so can only be given our ex provement was afterwa Bigelow in the follow thread in the usual way called a mail, attached to a the jacquard, and each card l a weight, all the we trap-boards of the ously, one up and the movements they catch u (determined by the com are required to bring at each operation to

n such of them as are not required at that cular operation; and when the two traps are on a level, and all the warp threads ted with them are in a horizontal line, and ot connected with them hang down with suspended weights, the lathe beats up the thread, which lies between the warps that re in a horizontal line, at the same time exerta force on the west threads previously wn, and beating them up more closely. nuw, as the warp threads are all connected at end with woven cloth, and at the other beam, it follows that those which are down in a bent line will receive a numer proportion of the force of the beat of e than the others; and as all the warp in succession take this position, and all qual weight, it follows that each sucsivery receives the same pull at the time the athe beats up; thus the tendency to irregulartv of surface from the varying lengths of warp taken up in ingraining is counteracted. Lim servage was made smooth and even by a vance which regularly gave a pull to the and after the shuttle was thrown. Mr. Bireiow at last, by these improvements and is which he introduced, brought the loom waverage from 25 to 27 yards a day of twoty, and from 17 to 18 yards of three-ply car-ets. His improved method of producing es that will match was afterward introand patented in 1845. The same maery was found to be applicable to the manure of Brussels and tapestry carpets, the ng of which, except by hand, was before rally considered a mechanical impossibilv. With the hand loom they were made at rate of 3 or 4 yards per day; but with the eved loom the production was increased to or 20 yards per day. The carpets, too, were de more exact in their figures, so that these fectly matched, and their surface was smooth They surpassed, indeed, in their l regular. ility the best carpets of the kind manufaced in any other part of the world. ms of Mr. Bigelow were introduced into tories built at Lowell, Mass., Thompsonville I Tariffville, Conn., for their use, and others re established at a new place named Clinton, Mass., where, since the year 1849, about 1,000 yards of Brussels carpeting are annually duced by the Bigelow carpet company. s town, 12 m. N. of Worcester, owes its sperity, and its population of over 8,000, olly to the various factories established upon different inventions of Mr. Bigelow. ille, also, now a place of over 2,000 inhabits, had a population of only 400 in 1840. e carpet establishment there, with a capital \$900,000, employs from 650 to 800 opera-

Thompsonville presents a similar hisy.—Brussels carpet is so named from Brusin Belgium, whence the style was introed into England in the last century. It is
the upon a ground of linen weft, which is conled by the worsted threads that are interlaced

with and cover it. The threads are commonly of 5 different colors. In the weaving these run the length of the web, and are so managed that all those required by the pattern are brought up together across the line of the carpet; before they are let down, a wooden instrument called a sword is passed through to hold up the threads; this is replaced by a round wire, which, being at last removed, leaves a row of loops across the carpet. In a yard length the number of successive lifts of the sets of colors required is sometimes as many as 320, each of which forms a row of loops. Four colors must always lie beneath the 5th, which appears on the surface, and thus the carpet, with its lines weft too, is thick and heavy. The Wilton carpet, the moquette of the French, differs from the Brussels in the loops being out before the wire is removed, a groove in the flat upper surface of the wire admitting of their being cut by rassing a knife along the surface. The soft passing a knife along the surface. The soft ends give the carpet a rich velvety appearance. In the imperial Brussels carpet the figure is raised above the ground of the pattern, and the loops of this are cut, but not of the ground. Various methods have been devised of simplify ing the processes of making the Brussels carpe Mr. Richard Whytock, of Edinburgh, introduced an ingenious plan of using threads dyed of the colors in the succession they would be required. This was done before they were made into the warp, and by a systematic arrangement. By this means a considerable proportion of the threads was dispensed with. His looms are threads was dispensed with. used by one establishment in England to the number of more than 800, producing carpets to the amount of about £500,000 annually. They are known as "patent tapestry and velvet pile" carpets. Another device is to weave the carpet in plain colors, and then print it with rollers or with blocks, after the method of calico printing. On account of the thickcalico printing. On account of the thick-ness of the fabric, difficulty is experienced in introducing sufficient color without going over the work many times. In do this, the difficulty is of course increased of retaining each color within its own exact limits Rollers were first used; but a cheap kind of carpet is now produced at Manchester, England, by block printing. Felt cloths are also printed in colors in this country, and sold to a considerable extent for carpets.—Venetian carpets (which, by the way, were never a produc-tion of Venice), are made with a heavy body of worsted warp, which completely hides the woof; this should be an alternate shoot of worsted and linen yarn. The fabric admits of little varieties of design. It is made in narrow widths for stairways and passages.—The patent wool mosaic carpet is a novel manufacture carried on by Messrs. John Crossley and Sons, of Halifax, England. A strong, plain cloth is used as a ground; upon this a pile of warp threads, first arranged over and under parallel strips of metal, which are cut out, leaving the ends like those of a Wilton carpet, is placed and cemented with caoutchouc. If the threads were of different colors, stripes are produced, or the yarns may have been colored by Whytock's plan, or colored patterns may be obtained by another process in use. This method is principally applied to the production of small articles. - A cheap kind of carpet, of little durability of wear or color, has been extensively introduced into this country the last few years, called the hemp carpet. It is made of hempen threads, the colors running in stripes.—The carpet manufacture has increased rapidly in this country, and in England also within the last few years. In England it is estimated that there are more than 5,000 looms in operation of every description. The business is actively carried on in various parts of the United States. Reference has already been made to the successful enterprises in this branch in Massachusetts and Connecticut. There are also extensive manufactories in different places in New York, New Jersey, and Rhode Island. In Massachusetts alone the value of goods produced in 1855 was \$1,362,819; the capital invested was \$2,264,-172, and the hands employed, 1,614, beside 4 manufactories of painted carpeting, 2 of rag carpets, and 2 from which there were no complete returns. In 1845 the value produced in Massachusetts was \$834,322; the capital invested \$488,000, and the hands employed did not exceed 1,034, showing in 10 years an increase in the value manufactured of about \$500,000 in Massachusetts alone. The value of carpetings of all kinds imported into the United States during the year ending June 30, 1857, was \$2,181,290, viz.: from

CARPINI

Russia	Canada\$195
Hamburg228	British W. Indies 109
Bremen	British E. Indies 53
Holland225	France
Belgium 1,104	Bardinia23
England 2,135,691	Gibraltar
Scotland	Asiatic Turkey451
China79	
Total	00 1c1 00A

The value of carpetings of all kinds reexported during the same period, ending June, 1857, was \$1,549, viz., to

Asiatic Russia	£219
Canada	. 577
Mexico	. 60
Venezuela	204
Sandwich Islands	. 459
m	
Total	8 1,549

CARPINI, GIOVANNI DI PLANO, an Italian Franciscan monk and traveller, born about 1210. In 1246 he was sent with a company of several other Franciscans on a mission to the great khan of Tartary, to convert him to Christianity, if possible, or, at least, to induce him rather to employ his arms against the Saracens and Turks than against the Christians. Carpini travelled through Russia and along the shores of the Black sea, and finally reached the court of the Tartar monarch, in some part of the region N. of the desert E. of the Caspian. He remained here a month or more, without apparently accomplishing much, and then set out on

his r ha without n of his j m , al was published in . " al eries" of Hakluyt. Ale devoca rea of his life to preaching the gos a Bohemia, Norway, and Denmaia, an advanced age.

CARPOURATES, or CARPOCRAS, an Aksandrian theologian, of the Hellenistic Gnote school, flourished in the 2d century A. D. under the reign of Hadrian; was of a family of Christianized Jews. His theological opinions were, in many respects, similar to those of the Gnostics generally. The fundamental Gnostic idea of a Supreme Being, entirely disconnected with the affairs of the universe, was the starting point of Carpocrates. The deminra ing point of Carpocrates. and the other finite spirits ruling over the meterial universe, were striving to keep humanity from unity with the Supreme Monad, to which it was constantly tending, on account of its hering been an original emanation from him. The preëxistent state of the human soul was, in the Carpocratian system, that period when it had been in perfect unity with the Supreme Mond. The demiurgus and ruling spirits have drawn it away from this sublime union, and endeavored to preserve it in expatriation. One of ther methods of accomplishing it is by laws or religious duties and observances, such as self-dexist and control of appetites and passions, and se-eral humiliation and penances. Only sect as rise above these tyrannous usurpations of the demiurgus and his colleagues, can attain to the true life of the soul. Consequently all religious systems were the devices of the deminings, for maintaining his supremacy, and the highest is jury to men. This Gnostic Antinomissism d veloped itself into a practical life of freedom from moral restraint, which both Carpocrates and his son Epiphanes took all pains to justify. The gratification of the appetites and pe became a duty instead of a wrong, and salvation by Jesus was only attainable on the condition of perfect abandonment to an antinomian in All who thus abandoned themselves were saved because by confidence in his teachings and example they thus proved themselves, in their covictions at least, freed from the power of the demiurgus. Jesus, they held, was simply a me of superior soul, who, like themselves, had the power to discern the real difficulty, and strength to achieve his own practical redemption, and point the way for others. Carpocrates and his followers rejected the gospels of Matthew and Luke, and the entire Old Testament, as the ingenious contrivance of the demiurgus to keep They also denied the res men in subjection.

rection of the body.

CARPZOV, a family of learned German, whose original name was Carpessus, their successors having left Spain in the 16th century on account of religious persecution.—Benuncer Carrevow, with whom the distinction of the family commences, was a native of Brandenburg, bern

Oct. 22, 1565, died Nov. 24, 1624, and a pro-fewor of jurisprudence. He had 5 sons, 4 of whom, Benedict, August, Konrad, and Christian, followed the profession of the father.—The 5th, Johann Benedict, born June 22, 1607, died Oct. 22, 1657, professor of theology in the university of Leipsic, was a Lutheran, and devoted himself to theology. His 5 sons, David, Johann, Friedrich, Samuel, and August, all gained more or less distinction in theology, jurisprudence, and letters. To the 4th generation the line of renown descends through Samuel to 2 som, Johann, born 1675, died 1739, and Johann GOTTLOB. The latter was a Lutheran theologian and oriental scholar, born in Dresden, Sept. 20, 1679, died at Lubeck, April 7, 1767. He was enabled to complete his knowledge of the oriental languages, while chaplain to the Saxon and Polish embassy to England and Holland. After his return in 1704, he was pastor of several churches, and in 1713 gave public lectures at Leipsic, on homiletic, dogmatic, and pastoral theology, oriental languages, and Hebrew antiquities. In 1719 he became professor of oriental languages at the Leipsic university. In 1730 he accepted the general superintendency and first pastorate of the cathedral of laheck, where he died, after enjoying the in-

ncy for 37 years. He was an opponent Moravians, and wrote many works on arinity, and also on the canon of the Scrips, and correlative subjects.

JARR, DABNEY, a member of the house of regesses of Virginia, moved and eloquently orted a resolution to appoint a committee grievances and correspondence, in conse-ence of British encroachments. His resoluence of British encroachments. n was adopted, March 8, 1778. Carr died 2 onths afterward. He married a sister of Jefon, by whom he is described as a man of und judgment and inflexible purpose, mingled th amiability, and of a fanciful eloquence. CARR, Sir Robert, British commissioner

New England, was appointed to that office Charles II. in 1664, in conjunction with colls, Cartwright, and Maverick. In 1664, icolls and Carr captured New Amsterdam om the Dutch, and called it New York, in nor of the king's brother, the duke of York, zerward James II. Carr forced the Swedes d Dutch on the Delaware into a capitulation. a returned to Boston in 1665, and, in connction with his coadjutors, assumed the prinpal powers of government.

CARRA, a hamlet in the canton of Geneva, vitzerland, remarkable for its rural school for phans and foundlings, the model on which e other schools for helpless and vagrant chilen in the Swiss cantons have been formed. was established in 1820 by M. de Rochemout, the plan of the Pon school at Hofwyl. esent number of pupils is 26, all boys, there ing another establishment for girls in the me canton. The family system is carried out its fullest extent. The school has been since commencement under the care of M. J. J.

Eberhard, a pupil of Vehrli. The children are taught all the duties of home and farm life, each in turn having a portion of the household duties assigned to him, till all become familiar with whatever is necessary to the comfort of a peasant's home. They have usually from 1 to 8 school hours a day in summer, and from 8 to 5 in winter. The course of study includes reading, writing, spelling, arithmetic, singing, drawing, and some knowledge of surveying, geography, and natural history. The food and clothing are the same with those of the peasant class of the canton, but the food is carefully and well prepared, and the clothing kept whole and scrupulously neat. Recreation, holidays, and festivals are not forgotten, as being a necessary part of the education of the child, in the estimation of M. Eberhard. Punishments are very rare. The expenses are a little less than

\$2,000 per annum.

CARRACCI. I. Ludovico, the founder of the Bolognese school of painting, born in Bologns in 1555, died there in 1619. His first master, Prospero Fontana, a Bolognese painter, so little appreciated his capacity that he advised him to adopt some other profession. slowness of execution was so remarkable that his fellow-pupils called him in ridicule the ox. From Bologna he went to Venice, and studied with Tintoretto. Subsequently he visited Florence and Parma, where he gave much attention to the works of Andrea del Sarto, Correggio, and Parmigiano. The object of these varied studies was presently developed in the establishment of his school of painting, known as the eclectic school of Bologna. In this project he secured the assistance of his cousins Agostino and Annibale, who joined him in Bologna about 1585. In a few years their school was overflowing with pupils, and all the others in Bologna closed. As the head of the academy, Ludovico resided chiefly at Bologna; and his merit is more that of a teacher than of a productive artist. He has left many works at Bologna, including his freeco paintings in the Palazzi Magnani and Zampieri; his series of scenes from the history of St. Benedict and St. Cecilia, in the convent of St. Michel at Bosco; an "Assumption of the Blessed Virgin," one of his best works; and the "Birth of St. John the Baptist." He also painted many "Ecce Homos" and "Pietas." II. Agostino, cousin of the preceding, born at Bologna in 1558, died in 1601. He was the son of a tailor, and when a boy was instructed in the goldsmith's art, whence he became an engraver. At the invitation of his cousin, Ludovico, he embarked in his project for founding a new school of art in Bologua, but first went through a course of studies at Bologna, Rome, Parma, and Venice. To Agostino were assigned the most important and laborious duties. He prepared treatises on architecture and perspective, lectured on anatomy, and suggested subjects for composition, drawn from history or fiction. He also proposed and awarded prizes for designs, celebrating the vic-

tor's triumph with music and song. His early predilection for engraving never forsook him, and, although his designs were numerous, he finished fewer paintings than either of the other Carracci. Among the best specimens of his paintings are "St. Jerome receiving the Sacrament before Death," at Bologna, and the "Infant Hercules strangling the Serpents," in the Louvre. III. Annibalz, brother of the preceding, born in Bologna in 1560, died in Rome in 1609. He was brought up to be a tailor, and was instructed in painting by his cousin Ludo-vico, and afterward sent to Parma and Venice, where he devoted years to the works of Correggio and the great Venetian colorists. His style was founded on the eclectic principle adopted by Ludovico. He was an industrious painter, and the works of this period of his life are numerous. His contributions to the Palazzi Magnani and Zampieri in Bologna, in which he assisted Ludovico, were highly esteemed. In 1600, by the invitation of Cardinal Farnese, he visited Rome, where, under the influence of Raphael and Michel Angelo, his style developed itself in a new form. He was employed to paint for various churches in Rome, but his chief work is the series of frescoes of mythological designs in the Farnese palace, and particularly in the gallery, which occupied him 8 At the commencement of this work he was assisted by Agostino; but the intercourse between the brothers, when they were not under the influence of Ludovico, was always liable to be interrupted by jealousies and disputes, and Annibale was soon left to labor alone. When the work was at length completed, the artist was rewarded with the sum of 500 crowns. Irritated by this parsimony, and enfeebled in health by long confinement, he repaired to Naples. The persecutions of the Nespolitan artists obliged him to return to Rome, where he died soon afterward. Beside the contributions to the Farnese palace, which have been frequently engraved, "St. Roch Distributing Alms," in the Dresden Gallery, a "Dead Christ supported by the Madonna," the "Resurrecsupported by the Madonna," the "Resurrection," at Bologna, and the "Three Marys" in the collection at Castle Howard, are among his most celebrated works. He was one of the first to practise landscape painting as a separate department of art. IV. FRANCESCO, a brother of Agostino and Annibale, born at Bologna in 1595, died at Rome in 1622. He studied painting with his cousin Ludovico, and attempted to stablish a rival school in Bologna, over the door of which he caused to be inscribed, "This is the true school of the Carracci." The project failed.

CARRARA, a city of Italy, pop. about 8,000, aituated on the Avenza, in the duchy, and 59 m. 8. W. of the city of Modena. Its principal edifices are the college, the ducal palace, the collegiate church, and the church of Madonna dellegrate. An academy of sculpture was founded here by Napoleon, and a great many artists from abroad reside here to superintend the

UARRARA marble, of f textur KI. name from the Ver-cuit bed rian differs from l delicate little plates or a The magnificent cur together. tains in which the quarries of Cerrara are situated, forms a portion of the A and is included in the former duchy Carrara. These mountains are miles from the seashore, and per imposing appearance, towering to the skies broken into rugged and inaccessible peaks. the foot of some of these hills a few sta trees are found, and higher up among the n fissures, flocks of goals procure a scanty subse-ence. The quarries, among which are these that furnished the material for the Panthees at Rome, are about half way up the mountains, although they have been worked for many o turies, and the annual export has long as ed to about 40,000 tons, yet the works still employed upon the surface; so that we may well regard the supply as inexhan The Carrara marbles are of 4 varieties. used by sculptors, the white, granularly foliate limestone, is the most valuable. It is me easy to work than the compact limestone, is color is purer, and it is delicately trans The other varieties are the veined marki colored lines, which render it unfit for status the ravacioni, or Sicilian, and the beidi deep blue color. In working the quartiblocks of marble, some of more than 30 **12 900** a feet, are loosened by blasting. When there ly detached, they are tumbled down or l ered to the base of the mountain, when they are transported to Marino, the port of shipment. The value of the material varies with the quality and size of the block, the l of these ranging from \$10 to \$15 per cubis for This marble range extends over many (leagues. The whole number of quarries i mated at about 400, of which 40 or 50 are c stantly worked, employing from 2,000 to 2,500 men, the wages varying from 80 to 90 cents per Those of the statuary marble do not exceed 12 in all, but are the most productive well as the most valuable. They are the se erty of 4 or 5 of the principal families of C rara. The labor in these mines is not estiwithout danger. It not unfrequently b that a heavy block of marble, bre fastenings in its descent from the more crushes beneath it the men engaged i removal. The Carrara merble, which formerly regarded as a primitive he proved an altered limestone of the colitic; od. The causes by which the char structure was effected have also served to obli erate all traces of the fossils which are t found in the rocks of this period. An an

he best quality of this marble by Kaeppel s:

Debenste of lime	.	96.7654
Orbonate of magnesia		0.9003
Orides of iron and manganese.	and alumina	0.0895
lines, trace of phosphoric acid	and loss	0.0961
Operts sand.		0.1558
4		

100.000

CARRAGEEN, or IRBH Moss, a marine plant, sheadrus crispus (see Alg.z.), which grows upon the rocks of the coasts of Europe, particularly of Ireland, and is said also to be a native of the United States. It is collected for the preparation of a light and nutritious food for the preparation of a light and nutritious food for particularly recommended in cold water, in which it swells without dissolving, and which removes the taste of extraneous matters mixed with it. It is then boiled in water, of which 3 pints are used to the ounce of moss. Milk instead of water makes a more matritious preparation. It dissolves and gelatiniza, and the jelly is flavored with lemon juice, and sweetened with sugar.

CARREL, NICOLAS ARMAND, one of the foundtra of the Paris journal, Le National, born May 8, 1800, at Rouen, died July 24, 1836, at St. Mandé, near Paris. The son of a worthy merthant, he was educated at St. Cyr, and entered be army as sub-lieutenant; secretly participatd in the Béfort conspiracy in 1821, but eluded

sicion. His political opinions became known the occasion of the outbreak of the Spanish A letter he had written to the wrtes came into the hands of his colonel, hen he resigned his commission, and entered to the foreign legion in Spain. When the ench army invaded the peninsula, Carrel was sde prisoner, and arraigned before a French urt-martial, who declared their incompeten-; but on an appeal to the court of cassan. he was sent before another tribunal, by nich he was sentenced to death, as having rried arms against his own country. On acant of some informality, the verdict was not rried out; and Carrel was tried before a 8d urt-martial at Toulouse, which acquitted n. He was now engaged for a few months an amanuensis to the historian Thierry; en he wrote 2 essays on the history of Scotid and of modern Greece, and a biograph-I notice of Paul Louis Courier, the French mphleteer; he was also editor of the Revue ricaine, a short-lived monthly, and an oc-

nal contributor to several leading opposiupapers, such as the Constitutionnel and the
obs. But he did not gain much literary repstion until the appearance of his Histoire de
contre-révolution en Angleterre, which was
orably received. With a view of finding an
tlet for his political opinions, with Thiers
d Mignet he founded the National. Thiers,

g the oldest and the best known of the 8, the leading editor, while Carrel wrote iefly for the literary department of the paper.

The National greatly contributed to bring about the revolution of 1880; but while, on the first signs of a collision, Thiers left Paris, and Mignet kept still, Carrel came out with his wonted audacity, and participated in the battle. When it was over, he was sent on a mission into the western departments; his wise measures and personal influence contributed to maintain tranquillity there. During his absence he had been nominated prefect of the department of Cantal; he declined the appointment, and went back to the *National*, of which he now assumed the chief editorship. Under his control, and chiefly by his contributions, the National became a most vigorous and eloquent journal, and gave to the republican party a standing which it never had before. The frankness and boldness of his course drew on him the anger of the government, but the measures taken against him, however trying, could not damp his ardor. He was the first to vindicate the memory of Marshal Ney before the court of peers; and his generous temerity would have been severely punished, if he had not been supported by Gen. Excelmans, himself a peer of France. His quickness of temper, enhanced by exaggerated chivalric notions, involved him in several duels. Previous to the revolution of July, he had espoused a quar-rel brought about by an article from the pen of Thiers, and fought for his colleague. 1888, threats having been uttered against the opposition by the legitimists, Carrel came out as the champion of the former, and had an encounter with Roux de Laborie, in which both were wounded, Carrel very severely. This circumstance elicited many evidences of the admiration he had won even in the ranks of his political opponents.—Three years after, Émile de Girardin challenged him; they fought at Vincennes, with pistols; Girardin was alightly wounded in the thigh, and Carrel received a ball in the abdomen. He was taken to St. Mandé, to the house of one of his friends, and after 2 days' suffering breathed his last. On the news of his wound spreading through Paris, crowds of citizens flocked to St. Mandé, and the deepest sympathy was manifested among all classes; his death was considered a public calamity. A new edition of his works was published in Paris in 1858, in 6 volumes

CARRENO MIRANDA, JUAN DR, a Spanish painter, born in 1614, died in 1685. As a colorist, the Spaniards rank him with Titian and Vandyke. His principal paintings are a "Magdalene in the Desert," at Madrid; a "Holy Family," at Toledo; and a "Baptism of our Saviour," at Alcala de Henares.

CARRER, Luier, an Italian poet, born in Venice in 1801, died Dec. 28, 1850. He officiated as professor of philosophy at Padua, from 1880 to 1883, when he went to Venice, where he conducted a literary journal for 9 years, during which time he was also appointed by the municipal council professor in the school of arts and sciences, and director of the museum.

late John L

Here he published several works, the most popular of which is the "Ring with Seven Diamonds" (L'Anolle di Sette Gemme), a poetic description of the history and customs of Venice. His lyric poems are his best productions.

CARRERA, the name of 8 brothers who distinguished themselves as revolutionary leaders in Chili against Spain, during the war of independence at the beginning of this century.

José Miguel, the eldest and most celebrated, was captured by the Spaniards and beheaded at Mendoza, Sept. 1, 1821; the 2 younger brothers were beheaded at Mendoza on the same day, April 8, 1817, 5 months after their centure.

OARRERA, RAFAEL, ruler of Guatemala, born in the city of Guatemala in 1814, of mixed Indian and negro blood. In 1829, when Morazan was president of the federal government, Carrera became a drummer-boy in the regiment of Col. Aycumena. Subsequently he retired to the village of Metaquascuintla, where he married a woman of singularly energetic character, his constant companion throughout his subsequent career. At that time the property and privileges of the church were assailed by certain partisans of immediate reform, while the Indians were generally wedded to the system of laws familiar to them for nearly 8 centuries, but which was about to be supplanted by Livingston's Louisiana code. discontent was thus excited among them, when an insult offered to his wife by a government officer roused Carrers to action. Bent on vengeance, he placed himself, in 1837, at the head of a band of insurgent mountaineers. Enlisting in a remarkable degree the sympathies of the Indian population, the rebellion made rapid strides. Strengthened at every defeat, he was in turns courted and caressed by Barrundia and other members of the 2 opposite factions which divided the government. In Feb. 1838, he occupied the city of Guatemala with 6,000 Indians, and young as he was, he succeeded in restraining his followers from the anticipated pillage and massacre. Some accommodation among the conflicting parties now followed, and Carrera, in the general terror, was sent to Meta, a neighboring district of the interior, in an official capacity, to which a salary was attached. On April 18, 1889, he again occupied the capital, which he has since held. Ruling at first as general-inchief, he was elected, March 21, 1847, to the presidency of Guatemala. In Feb. 1851, with only 1,500 men, he defeated the combined forces of San Salvador and Honduras, since when peace has been preserved. He was reelected Oct. 19, 1851, as president for life. In the earlier part of his career he was regarded as the enemy of order and civilization. leader of an unbridled mob, in 1888, inflamed with political animosities, his conduct was naturally controlled by the exigencies of the occasion. But of late years he has verified the opinion, early entertained and expressed by the

cerity and 1 elected to to read anu write, ure repaired the His government is au CARRETTO, FL a Neapolitan minister or polic toward the end of the 18th our his way to distinction in the a a member of the carbon pointed general inspector us police marched at the head of 6,000 insurrection, of which the little wwa o was the focus. After destroyi immediately caused a pillory to its ruins, and had 20 persons (ing an old man of 80 years. ...is him the wrath of the Neapolitans. ı nis Ferdinand II., however, appoin ister of police in 1831. For a exercised almost absolute power in 1837, when the cholera raged in the people, in their despair, contenues had been intentionally brought in by the government, Carretto v Catania, where the insurgents ... provisional government; and his arrival, had already be again exercised his authority by on execution of more than a hun even applying the torture to The king was finally compelled to clamors of the people, and d the night of Jan. 27, 1848, he Gen. Filangieri, and put steamer, as exile to France. the passenger became known supply of coals was withheld for In Genoa he was not permitted w He afterward returned to Naples, .

restored to office.

CARRIACOU, the largest of the Grennine islands, in the British West Indies, 7 m. large and from 2 to 4 broad. It is well cultivated and produces good crops of cotton. The town and harbor of Hillsborough are on its W. side.

CARRICKFERGUS, a maritime district of Ulster, Ireland, surrounded by the county Antrim on all sides save the S., which is wa by the bay of Carrickfergus; area, 26 a pop. in 1851, including the town, 8,520. In it is in general hilly, but toward the sea the hills gradually disappear, and the c spreads out into an alluvial plain. O tatoes, cattle, and cheese are produced. fisheries are valuable, and the oysters are mous. A vein of rock salt of remarkable p and great thickness has recently been di ed. This county belongs to the disc Connor, and its entire ecclesiastical i inures to the benefit of a single rector.-EXCEPTED US, the capital, pop. in 1651, 2,543, extends about 1 m. along the shore of Carriefergus bay. It consists of 3 parts: the old or walled town in the centre, the Irish quester on

and the Scotch quarter on the E. The ints of the last-mentioned quarter are fishermen, descendants of a colony eligious persecution drove thither from osite coast of Scotland in the 17th cen-There is an old castle, once very strong, Il fortified. The other public buildings of note are the parish church, an antistructure in the form of a cross, and the ouse, a neat building recently erected. are 8 flax-spinning mills, a muslin green, and a linen bleach-mill and n the vicinity, and some trade is also on in tanning, brewing, and distilling.

times the town was frequently attack-William III. landed here, June

In the roads opposite the town, the stoop of war Drake was captured by ones, April 24, 1778. The town sends

mber to parliament.

RICKMACROSS, or MAGHEROSS, a town in the county of Monaghan, Irem. N. N. W. from Dublin; pop. in 1851, The town was granted by Queen Elizathe earl of Essex, who built here a the ruins of which are now among the nteresting objects of the place. The still remains in the possession of the

ly. On the W. side of the town are ruences of the Shirley family, the principrietors of the district. There are in the brewery, malt stores, and a distillery. RIER, JEAN BAPTISTE, a notorious memhe French convention, born in 1756 near 3, died Dec. 16, 1794, in Paris. Taking in the national convention in 1792, he ed the establishment of the revolutionary l, voted for the death of Louis XVI., ed a motion for the arrest of Philip duke of Orleans, and participated in the popular rising of May 81, against ondists. His revolutionary zeal caused be sent to Normandy, then to Nantes, he arrived Oct. 8, 1793. The western ients were troubled by civil war, and he ded himself with ferocious men, ordered us arrests, and sent victims to the scafthe slightest suspicion. He soon diswith even a show of trial; without any

ith valves were procured, which, after on board hundreds of prisoners, were u the middle of the Loire, where they ank to the bottom with their human The first of these dreadful executions d of 94 priests; several others took place h women and even children were minth men in every stage of life. The un-eings were confined in a vast building he warehouse; every day, at night-fall, s of them were summoned on board the ats, and their death was hidden in the s of night. He also invented the so-"republican marriage:" the victims

proceedings, prisoners were murdered lesale; and as the guillotine did not

ufficient means of execution, boats pro-

were tied in couples, sometimes a man and woman together, then hurled into the river by the executioners; sometimes forced from the boat by the sword or bayonet. Meanwhile numbers of prisoners were also shot in the quarries in the vicinity of Nantes. The convention was for a while kept ignorant of these monstrous scenes; the killing of prisoners he reported as the "translation of culprits." The citizens of Nantes themselves did not dare to denounce him, as they were under the impression that he acted in accordance with the orders of the convention. At last the assembly became aware of the real state of things, and Carrier was recalled by the committee of public safety. Strongly denounced by public opinion, he was arraigned before the revolutionary tribunal, Nov.

25, 1794, and sentenced to death.

CARRIER PIGEON (columba livia). This, the pigeon prive of Belon, the pigeon domes-tique of Brisson, the wild rock pigeon of the British, and the colommen of the Welsh, is the stock from which ornithologists generally now agree that the domestic pigeon is derived. "Under this species," writes Mr. Selby, "we include not only the common pigeon, or in-habitant of the dovecot, but all those numerous varieties, or, as they are commonly called, races of domesticated pigeons so highly prized, and fostered with so much care and attention by the amateur breeder, or pigeon fancier; for, how-ever diversified their forms, color, or peculiarity of habit may be, we consider them all as having originated with a few accidental varieties of the common pigeon, and not from any cross of that bird with other species, no signs or marks whatever of such being apparent in any of the numerous varieties known to us. In fact, the greater part of them owe their existence to the interference and art of man; for, by separating from the parent stock such accidental varieties as have occasionally occurred, by subjecting these to captivity and domestication, and by assorting and pairing them together as fancy or caprice suggested, he has, at intervals, generated all the various races and peculiar varieties, which, it is well known, when once produced may be perpetuated for an indefinite period, by being kept separate from and unmixed with others, or what by those interested in such pursuits is usually termed 'breeding in and in.' Such also, we may add, is the opinion of the most eminent naturalists as to their origin; and it is strongly insisted on by M. Temminok, in his valuable Histoire générale naturelle des pigeons. Indeed, the fact that all the varieties, however much they may differ in size, color, or any other particulars, if permitted, breed freely and indiscriminately together, and produce a progeny equally prolific, is another and a convincing proof of a common origin; for it is one of those universal laws of nature, extending even to plants, and one which, if once set aside and not enforced, would plunge all animated nature into indescribable confusion, that the offspring produced by the intercourse of different species, that is, distinct species, is incapable of further increase." The varieties of this bird, produced under the fostering hand of man, the tumblers, croppers, jacobines, runts, spots, turbits, owls, nuns, &c., would fill a volume; the carrier, however, demands especial notice. The carrier pigeon is a bird larger than the common pigeon, measures about 15 inches in length, and weighs about 1½ lb. The neck is long, and the prestoral mass. lb. The neck is long, and the pectoral muscles very large, indicating a power of vigor-ous and long-continued flight. An appendage of naked skin hangs across its bill, and continues down on either side of the lower mandible. According to its size and shape the amateurs of carrier pigeons estimate the value of the bird. They consider those pigeons the best that have the appendage rising high on the head, and of considerable width across the bill, and that are also distinguished by a wide circlet round the eyes, destitute of feathers. The instinct which renders this bird so valuable is its very strong love of home, which is, in some degree, common to all the domesticated varieties. The mode of training them in Turkey, where the art is supposed to be carried to the greatest perfection, is this: The person who has the charge of rearing and training them watches for the arrival of the young pigeons at the full strength of wing, and then takes them in a covered basket to a distance of about 1 mile from their home; they are then set at liberty, and if any of them fail in returning home from this short distance, they are considered stupid, and are rejected as valueless. Those that return home are then taken to greater distances, progressively increased from 2 to 1,000 miles, and they will then return with certainty from the furthest parts of the king-In England, it is usual to keep these birds in a dark place for about 6 hours before they are used; they are then sparingly fed, but have as much water given them as they will drink. The paper on which the message is written should be carefully tied round the upper part of the bird's leg, but so as in no wise to impede its flight. In older times, it appears, from an English ballad, and from a line in Tasso, that the original way of suspending the despatch was from the wing, or round the neck, but the above method is that now adopted. The antiquity of the application of these birds to the purpose of bearing intelligence to distant parts or persons, and the perseverance with which some varieties (that which is named, from its peculiar fitness, the carrier, more especially), when well trained, will return from long distances, is well known; but it is not known when, or by whom, the pigeon was first applied to this purpose. "The same faculty which in comparatively modern days was degraded to giving notice to the authorities that the finisher of the law had done his duty, on Tyburn hanging days—Hogarth's graphic record of the custom will occur to most—which afterward sank to being the bearer of the news of the

prize ring, and newade stocks to and from the co first intelligence of the winner kept Hirtins and Brutus coast each other's designs and moves the besieger felt to his cost. In vain did spread his note, and try every strate baffle these couriers of the air; he l mortification of seeing them going and s every morning over the beleaguered walk of Ma tina. Anacreon's dove" (see his ode E_e II. ραν) " was employed on a more greatle m and Taurosthenes sent one decked with his happy father, in the island of Agi the news of his victory at the Olymp on the day of the pigeon's arrival. the authority of Sir John Mandeville made his way to the border of Chine, in th reigns of the second and third Edward the Asiatics used them for the same the Romans. During the crusade of St. L. they were so employed; Tasso presses into service in the siege of Jerusalem," a Godfrey defend one when attacked by a fa and Ariosto makes the castellan di De spread the news of Orrilo's death by a s ger dove. "The rapidity of the flight of a of the species," says Mr. Broderip, " is almost credible. The passenger pigeon has been that in the neighborhood of New York, with it crop full of rice, which the bird could not have procured nearer than the rice fields of Gen and Carolina. Audubon, who relates this surling, but, I believe true fact, observes that, their power of digestion is so great that they entirely decompose food in 12 hours, the birds which were killed in the neighborhood of her York must have travelled between 300 and 4 miles in 6 hours. The passenger pigess would thus, as Audubon observes, be enabled, were a so inclined, to visit Europe in less than \$ d With all deference to Mr. Andubou's of however, something more than inclination week be required by the bird to enable it to pay the visit intimated; for, rapid as are its podigesting food, equally rapid is the failure of strength when deprived of food; and a bird can no more endure many consecutive hours of total privation of sustenance than a m support as many consecutive days; so that w less the passenger pigeon were to take a walls of rice under his wing, he would have but little chance of reaching the term of a 3 days' jours unless he should calculate on stoppis and taking a meal on board one of the steamers, as at a half-way house, and on i a second on which to roost, since the not nocturnal.—The ordinary rate of th of carrier pigeons is not generally laid to determine the rate of a cerrise con's flight. "In 1808, a young man is borough undertook that his pigeons of fly 85 miles in an hour. Three were th up at 5 o'clock in the evening beyond I'm bridge Wells, and arrived at their owner's re

Mence in 58 minutes, thus beating time by 7 misutes. A gentleman laid a wager on this event, and he sent a pigeon to Bury St. Edmand's, with a request that the bird, 2 days after its arrival there, might be thrown up as the clock struck 9 in the morning. This was done, and at 111 o'clock that morning the geon was shown at the Bull inn, Bishopsgate, into the loft of which respectable establishment it had entered, having made its way to that point in London in 21 hours, and having travered 72 aerial miles in that time. When the sanual trial of the prize for the best carrier My birds, which had been conveyed from that geons was decided at Ghent on June 24, 1838, place, were thrown up at Rouen at 55 minutes st 9 o'clock in the morning. The distance is 150 m, be the same, in lawyer's phrase, more or less, and the first pigeon arrived in Ghent in 14 hour; 16 came in within 24 hours, and 8 in the course of the day; 4 were lost. If this statement be correct, the first bird more than trebled the usual rate of a carrier piseon's flight, and covered at least 90 m. in the It is said that wild ducks have been wn to perform this rate in passing head--The education of carrier pigeons is enprogressive; the distance flown being lly and alowly increased from 1 mile was 0 or 80 miles. When the bird is able to complish this, he may be trusted to fly any nce overland, within the limits of physical wer. The younger the bird is, if it have angth to fly well, the greater is the chance of cating it to be a good bearer of a despatch. this drilling be not commenced early, birds the best breed cannot be trusted. When the best breed cannot be trusted. own up, the bird rises, and when it has ched a good height, will at first fly round round, and then make off, continuing on wing without stop or stay, unless prevented, its well-known home is reached. A word the wise: One should never throw up his ird in a fog or hazy weather, or 'tis ten to one inst its reaching its destination, or ever seen again. The spiral flight, when the ir... are thrown up, is evidently a flight of bservation, and when they catch sight of any ell-known landmark, away they go home-ard. But they are lost if no such objects are sight. Thus pigeons, when loosed from a alloon at a great height, have, after flying and and round, returned to the balloon, for ant of objects to guide them in their home-ard flight. And yet there is on record a wonderd instance of their return to their domicile ler circumstances of great difficulty, to say the of it, as far as guide marks are concerned. tle of Solebay was fought May 28, 1672. t. Carleton was a volunteer on board the wadon man-of-war in that engagement, and he stes that, on the first firing of the London's u , a number of pigeons, kept in the ship, of way. Nowhere were they seen near during fight. It blew a brisk gale next day, and

the British fleet was driven some leagues to the southward of the place where the birds forecok the ship. The day after, back came the pigeons, not in one flock, but in small parties of 4 or 5 at a time, till all the birds were safe on board. This unexpected return caused some conversation on board, when Sir Edward Spragge told those who expressed their surprise, that he brought those pigeons with him from the straits, and that when he left the Revenge for the London, all those birds, of their own accord, without the trouble or care of carrying, left the Revenge, and removed with the seamen to the London." This is the more remarkable, since the birds in question, in so far as appears, were not carriers, but only common dovecot pigeons; and it goes far to corroborate the opinion expressed at the beginning of this paper, that the forms, colors, and habits, even to those which appear most characteristic and instinctive, of these birds, are merely varieties developed by care and education from accidental occurrences; as this incident clearly indicates the original instinct of returning to an accustomed home, as existing strongly in the original unimproved stock. Nor is it one whit more strange that this educational faculty of carrying should be converted, by a long course of teaching genera-tion after generation, into an hereditary instinct apparently natural in the pigeon, than that the same thing should occur, as it is known to every sportsman that it does, in the pointer and setter, in reference to backing and pointing, nat-urally, without the breaker's aid.

CARRO, JEAN DE, a champion of vaccination, born in Geneva, Aug. 8, 1770, died at Carlebad, in Bohemia, March 12, 1857. Taking up his abode in Vienna in 1795, he became celebrated by his efforts in spreading Jenner's system of vaccination as a protection against small-pox, in Germany, Hungary, Poland, and Russia. In 1800 he sent a quantity of virus to Lord Elgin at Constantinople, together with a work of his own, translated into Turkish, on vaccination. The attempts of the English to introduce vaccination into India having been unsuccessful, because the virus had always been deteriorated on the way, Carro was induced to procure the vaccine matter from cows of Louibardy, and send it to Dr. Harford at Bagdad. This retained all its strength, and was the means of introducing the benefits of kine-pox inoculation into India. The Indians consider it to be derived from a sacred cow, to which they give the name of *opeurtum*, or immortality. Carro published his "Observations and Experiments on Vaccination," in the French language, at Vienna in 1801-'2. He also published a translation of an English work by J. J. Loy, on the origin of the kine-pox virus. These works are very valuable; and there are some letters written by him in Aug. 1808, on the anti-pestilential nature of the kine-pox matter, which are preserved in the library of the British museum. He resided at Carlabad from 1825 to the time of his death, and published there an annual simenee.

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also several esteemed publications on the springs of that famous watering place; his last work on the subject, entitled Vingt-huit ans d'observations et d'expérience à Carlebad, appeared in 1888.

1858 CARROLL, the name of counties in 14 of the United States. I. An E. co. of N. H., watered by numerous small streams; area about 560 sq. m. Lake Winnipiscogee separates it from Belknap co. on the S. within its own limits are several smaller lakes and ponds. The surface is mountainous and broken, Ossipee mountain and Conway peak being the principal summits. The soil is productive, but much labor is required for its cultivation. In 1850 it yielded 147,715 bushels of Indian corn, 50,467 of oats, 840,278 of potatoes, 84,675 tons of hay, and 570,188 lbs. of butter. There were 25 flour mills, 49 sawmills, 40 churches, and 6,281 pupils attending public schools. The county was named in honor of Charles Carroll of Carrollton, one of the signers of the declaration of independence. tal, Ossipee. Pop. in 1850, 20,157. II. A. N. co. of Maryland, with a hilly surface, and a thin, rocky, but carefully improved soil. It borders on Pennsylvania, is drained by the sources of Patapsco and Gunpowder rivers, and comprises an area of 500 sq. m. In 1850 it produced 265,007 bushels of wheat, 848,008 of Indian corn, 228,179 of oats, and 444,759 lbs. of butter, beside considerable quantities of copper and iron ore, cotton and woollen fabrics, leather, and various manufactures. Two newspapers were published in the county. There were 40 churches, and the public schools numbered 708 pupils. Capital, Westminster. Pop. in 1850, 20,616, of whom 975 were slaves. A S. W. co. of Va., area 440 sq. in., bordering on N. O., bounded W. by New or Kanawha river, and extending S. E. to the Blue Ridge. land, though rough and hilly, is generally fit for cultivation or grazing, and produced in 1850, 182,189 bushels of Indian corn, 11,578 of wheat, 82,847 of cats, 2,715 tons of hay, and 56,178 lbs. of butter. Horses, cattle, and swine are raised, and there are mines of copper, iron, and lead. Grayson sulphur springs, on New river, are much resorted to in summer. Carroll co. was formed from Floyd in 1842. Capital. Hillsville. Pop. in 1850, 5,909, of whom 154 were slaves. Value of real estate in 1856, \$4,-282,851. IV. A. W. co. of Ga., bordering on Ala.; area, 572 sq. m. The Chattahoochee and the Tallapoosa are the principal rivers. The surface is mountainous, and the soil, which rests chiefly on a granite foundation, is fertile in many parts of the county. One or two gold mines are worked with profit. The agricultural productions in 1850 amounted to 1,243 bales of cotton, 816,871 bushels of Indian corn, 40,803 of oats, and 73,948 of sweet potatoes. There were 840 pupils attending public and other schools. The county was formed in 1826. Capital, Carrollton. Pop. in 1855, 10,526, of whom 1,379 were slaves. Value of real estate in 1856, level, and sur navigable by ductions in 1800, 11 bushels of Indian corn, 176 of swe and 82 122 of oats. Number of pe and 82,122 of oats. I, Carr public schools, 628. in 1850, 18,492, of wl A. N. E. parish of La. v.012 v 1,050 sq. m., between two Bouf bayou. The surface 1855 the productions of cotton, and 886,81v; The value of real estate in 1855, 10,945, of whom Capital, Providence. VI VIL. Ark., bordering on Most of the land by hills, plains, and yield excellent vari harvest of 1854 a nd to 401. of Indian corn, 20, of T of oats. Capital, **UNITO** 6,787, of whom 205 were W. co. of Tenn., with a flat cellent soil; area, 625 sq. m. tensive forests of oak, hickor Agriculture black walnut. state, and the productions in 1 bushels of Indian corn, 10 bales of cotton, 817,145 l 107,748 of butter. Nu public schools, 671.
Pop. 15,967, of whom 8,
A N. co. of Ky., bordering by the Ohio river on the Kentucky; area, about ! part the surface is occu xd uy elsewhere the land is unu Most of the soil is calcureou abundant. The productions in a 510 bushels of Indian corn, 12, 18,604 of cats, 232,612 lbs. of toof wool, and 8,256 of flax. churches in the county, and 500 i ing public schools. Capital, (5,526, of whom 949 were slave of Ohio, area 860 sq. m., well watered and moderately hilly. Hard coal and is the principal minerals. The agricultural ducts in 1850 were 230,931 bus corn, 268,755 of wheat, 221,063 of o 11,571 tons of hay. Cattle and swi tensively raised, and constitute a comproportion of the wealth of the inhabit 1850 there were 71 churches, and 8,33 in the public schools. Capital, Carrolles 17,685. XI. A central co. of Ind., area 378 m., drained by the Wabash and Tippees rivers. The soil is extremely productive, the surface diversified. About in prairie is the remainder being covered with forests. beech, walnut, oak, and sugar maple. the county produced 549,882 bushels of

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,371 of wheat, 58,076 of oats, and 4,of hay. There were 9 churches, and pils attending public schools. Capital, op. 11,015. XII. A N. W. co. of Ill., sq. m., separated from Iowa on the W. ississippi river. The surface is rolling, ed between prairie lands and forests. luctions in 1850 amounted to 186.301 f wheat, 218,061 of Indian corn, 74,684 nd 100,986 lbs. of butter. There was urch, and the public schools numbered pils. There are extensive lead mines. Mount Carroll. Pop. in 1855, 7,610. entral co. of Mo., area 700 sq. m., lying he Missouri river on the W. and Grand the E. The surface is somewhat unin many places is covered with thick oak, black walnut, and other trees. which rests on beds of limestone and , is generally productive. In 1850 it 11,675 bushels of Indian corn, 26,452 34,055 of oats, and 289,869 lbs. of to-There were 9 churches in the county, upils attending public schools. Capiollton. Pop. in 1856, 9,663, of whom re slaves. XIV. A central co. of Iowa, by Raccoon river, area about 600 sq. a healthy climate and a fertile soil. en recently erected, and very little of is yet improved. Coal, iron, building 1 timber are abundant. Pop. in 1856,

OLL, CHARLES, of Carrollton, a patriot merican revolution, born at Anna-, Sept. 20, 1737, died Nov. 14, 1882, surviving signer of the declaration endence. His parents were of the andence. latholic faith, and in 1745, when he are old, he was taken to the college of esuits at St. Omer, where he remained and then went to a college of French t Rheims. After 2 years he went to to study the civil law, and after rehere 1 year, spent the next 2 in Paris. he repaired to London and began the law in the Temple. In 1764 he re-America, and in 1768 married Mary He inherited a vast estate, the last of rial grants of Maryland, and at the ement of the revolutionary war was d the richest man in the colonies. His would be considered large now, and riod, when such fortunes were scarcely vas probably little short of 2 millions s. He soon began to employ his pen e of the colonies against the claims of er country. In 1770-'71 he wrote artir the signature of "The First Citizen," ie right of the government to regulate About the same time, proclamation. ersation with Judge Samuel Chase, the narked, "Carroll, we have the better ponents—we have completely written rn." "And do you think," replied Car-it writing will settle the question be-?" "To be sure," replied Chase; "what

else can we resort to?" "The bayonet," answered Carroll. Some years before the commencement of open hostilities, Mr. Graves, a member of parliament, wrote to Mr. Carroll on the subject of our troubles, ridiculed the idea of our resistance, and said that 6,000 English troops would march from one end of the continent to the other. "So they might," Mr. Carroll observed in his reply, "but they will be masters of the spot only on which they encamp. They will find naught but enemies before them. If we are beaten in the plains, we will retreat to the mountains and defy them. Our resources will increase with our difficulties." When tea was imported into Annapolis, great excitement was created, and Mr. Stewart, the owner, was threatened with violence. Some of his friends called on Mr. Carroll to protect him, or use his influence to do so. He said to them: "It will not do, gentlemen, to export the tea to Europe or the West Indies. Its exportation, contrary to the known regulations of the convention, is an offence for which the people will not be so easily satisfied, and whatever may be my personal esteem for Mr. Stewart, and my wish to prevent violence, it will not be in my power to protect him, unless he consents to pursue a more decisive course of conduct. My advice is, that he set fire to the vessel and burn her, together with the tea she contains, to the water's edge." Mr. Stewart then appeared and soon consented to the proposal, and a few hours afterward the brigantine Peggy, with sails set and colors flying, was given to the flames, to the entire satisfaction of the dense crowd collected. In 1775 Carroll was chosen a member of the first committee of observation that was established at Annapolis; and during the same year he was elected a delegate in the provincial convention. In February, 1776, he was appointed a commissioner with Dr. Franklin and Judge Chase, to proceed to Canada accompanied by the Rev. John Carroll, in order to induce the inhabitants of that country to unite with the colonies. He returned from Canada in June, 1776, and on the 12th presented their report. He found the declaration of independence under discussion, and the delegates of his own state, Maryland, shackled by instructions (given the December previous, and against which he had then contended), "to disavow in the most solemn manner all design in the colonies of independence." On his return he hastened to Annapolis, to resume his seat and procure, if possible, a withdrawal of these instructions. Together with Judge Chase, he labored so assiduously, that on June 28 the instructions were withdrawn and the delegates authorized to join in a declaration of independence. On July 4, 1776, he was appointed a delegate to Congress, and Aug. 2, when the declaration was first signed, he was one of the earliest signers. As he affixed his signature to that immortal compact, a member standing near, knowing his princely wealth, observed, "There go a few mil-lions;" and adding, "However, there are many

Carrolls, and the British will not know which one it is," Mr. Carroll immediately added to his name, "of Carrollton," and was ever afterward known by that title. Mr. Carroll took his seat on July 18, and was soon afterward placed in the board of war. In the latter part of 1776, he was one of the committee to draft the constitution of Maryland, and in December of the same year he was chosen to the senate under the constitution of that state. In 1777 he was re-appointed a delegate to Congress. In 1781 and 1786 he was reelected to the Maryland senate, and in 1788 a senator of the United States. In 1797 he was again elected to the senate of Maryland, and in 1799 he was appointed one of the commissioners to settle the boundary line between Virginia and Maryland. In 1810 Mr. Carroll retired from public life, and devoted his time to the management of his estate. A man of cultivated mind, captivating manners, liberal and philanthropic in all his views, and proverbially hospitable, his society was eagerly sought by those who resided near him, or in the neighboring city of Baltimore; while those who came from a distance with any proper introduction, met always the warmest welcome. On July 4 1821, the fact that only 4 of the signers of the declaration of independence were still living, was noticed in many of the newspapers. Of these, William Floyd, of New York, died 80 days afterward. The demise of John Adams and Thomas Jefferson, on July 4, 1826, left Charles Carroll of Carrollton the last surviving signer. In the performance of their obsequies, funeral honors being paid them in Balti-more as in many other cities, Mr. Carroll was chief mourner. On July 4, 1828, after he had passed the patriarchal age of 90 years, in the presence of a vast concourse of spectators and attended by one of the most imposing civic processions over seen in the United States, he laid the corner stone of the Baltimore and Ohio railroad. He was yet spared for several years longer, and died in the 96th year of his

CARROLL, John, an eminent prelate of the Roman Catholic church, and the first archbishop of the U.S., born at Upper Marlborough, Md., in 1785, died Dec. 8, 1815, was educated in the college of St. Omer, and the college of Liége, where he was ordained a priest, and after surrendering his patrimonial estate to his brother, became a member of the society of Jesus. Upon the dissolution of that society in France in 1762, he acted as the secretary of the dispersed fathers, in their remonstrance with the court of France respecting the temporal interests of the order. He then went to England, and was selected by Lord Stourton, a Catholic nobleman, to accompany his son as his tutor in the tour of Europe. During this journey he wrote, for the use of his pupil, a concise history of England. On his return to the continent in 1773, he accepted for a short time a professorship at Bruges, and afterward retired to England, living with the family of On the breaking out of the mother country and the he resisted all the pressing so Arundel and embarked 1 Shortly after his return. American congress, he: lin, his cousin, Charles and the Hon. Samuel Chasion to Canada, from which great benefits would ensue to By a special resolution of c roll was desired "to pre roll to accompany the commu assist them in such matters me useful." The object of th not entered on the j evident. In the deb 1774, we are informed IL LUNCTO rrotestants. w Catholics, and only government of the Queuec proto fully estimate the delicacy or position, it should be remember-u his services were requested by Ou hope still remained in the coloni reconciliation with the ki the commissioners left tha sloop for Albany, but till the 29th. As is wen anown, failed, and leaving Messrs. Chase and Carrollton, Mr. John Carroll r with Dr. Franklin. The friend between these 2 eminent men du ney was of lasting character. lishment of peace, the Roman 4 of the United States petitioned the establishment of a hierarchy in the preference to remaining une ence of that in England. Franklin's instance, then r Mr. Carroll was appointed . 1786, when he fixed his abode 1789 he was appointed the firm of the U.S., and went to En crated. He assumed the title timore, and a few years I created archbishop. o bis de

CARRON, a small river in Sectiond, 14 m. long, rising between the friths of Forth and Clyde, and flowing into the frith of Forth about 3 m. N. of Falkirk. About the middle of its course stand 2 earthen mounds of considerable height, called the hills of Dunipace. It has been supposed that they were made in estimated the Caledonians, their name coming from dun, at the Caledonians, their name coming from dun, at hill, and pax, peace. They may be merely be not be not been supposed to be the seems of a conference between William Wallace and Rebert Bruce. About 1 mile from the attention near Falkirk, is the battle-ground where the English defeated Wallace in 1298. During the 5th century, many battles between the Remans and the Scots and Picts were furght near this river. The Carron was the boundary of

n empire, the wall of Antoninus run-3 to and parallel with it for several he village of Carron, on its banks, is r its large iron foundery, established

DN, Guy Toussaint Julien, a French n at Rennes, Feb. 23, 1760, died , 1821, in Paris. Having taken holy an early age, he distinguished himself tive philanthropy in establishing, in town, cotton factories, where he prok for the poor. On the outbreak of ution he was transported to Jersey. established schools for young ex-France, a Catholic chapel, and charitutions. In 1796, through the assistie government and several noblemen, d a college for his young countrymen, school, and 2 hospitals for emigrant In 1814 he returned to France as e left it, and, with the patronage of III., founded the Marie Thérèse instihe education of orphans. He wrote oks for the instruction of Christian

)NADE, a short piece of iron ordt constructed at the Carron foundery, in 1779, for the use of the British first employed against the United 'he carronades have no trunnions, but ler the middle of the piece, by which fastened to the carriage. The bore mber, and the muzzle is scooped out They are very short and light, there ut 60 or 70 lbs. of the gun to 1 lb. of t of the solid shot, the length varying 3 calibres. The charge, consequently, it be weak, and ranges from 18 to 1 t of the shot.—Carronades, on their duction, found great favor with naval eir lightness and insignificant recoil reat numbers of them to be placed the small men-of-war of those times. iges appeared proportionably great, is caused: 1, by a reduced windage, their great angle of dispart, arising :hickness of metal around the breech, hortness of the gun; and the great metal projected by them rendered lose quarters very formidable. They pted in the U.S. service about 1800. wever, soon discovered that this kind could not compete with longer and ins, throwing their projectiles with full 1 at low elevations. Thus, it has been d that the common long guns of the rvice have at 2° elevation, and the s at 3°, the same range as the carf corresponding calibre at 5° (viz., 00 yards). And, as the chance of creases as the elevation increases, the rronades beyond 1,200 yards and an of 5° is completely out of the quesreas, long guns may with considert be used at ranges up to a mile, and) yards. This was strikingly exemplified by the 2 centending squadrons on Lakes Erie and Ontario, during the Anglo-American war of 1812-'14. The American vessels had long guns, while the British were mainly armed with carronades. The Americans manœuvred so as to keep just out of range of the British carronades, while their own long guns told heavily on the hulls and rigging of their opponents. In consequence of these defects, carronades have now become almost obsolete. On shore they are used by the British, now and then, on the flanks of bastions and in casemates, where but a short extent of ditch is to be flanked by grape principally. The French navy possesses a carronade with trunnions (corronade à tourillons); but this is in reality a

powerful gun.
CARROT (daucus carota, Tourn.), a member of the natural order umbellifora, or paraley family. It is a biennial, bearing seeds on stems 2 to 21 feet high, in clusters called umbels. It may be seen growing in its wild state in pastures, where it is a great pest. The tap root of the domesticated carrot is raised from seeds sown in cultivated ground, and has long been used in soups and stews, and is a favorite in Germany and France. It is a promoter of good digestion, and is especially valued as a substantial food for horses and other stock. Butter of an excellent quality and bright color can be made by feeding a peck of carrots morning and night to each milch cow. They can be grown at the rate of 500 to 1,500 bushels per acre, and properly managed at a cost of 15 to 20 cents per bushel. In England they are rated at 10 to 28 tons, worth £1 sterling per ton at least. In our markets they bring \$1 to \$1 50 per barrel of 24 bushels; in bulk for feeding, about 40 to 50 cents per bushel. Soil not capable of producing 500 bushels per acre should never be used for carrots. The best soil is a deep dry loam, rich from previous manuring. The carrot germinates slowly, requiring about 8 weeks before it appears above ground. This slow growth allows the weeds time to start, and makes culture more expensive. To avoid this difficulty, it has been the practice with many to drill radishes, mustard, or oats with them, to mark the row at an early period so as to allow the spaces between the rows to be cleaned, even before the plants are up. Some growers place the seed in a bag, bury it in the earth until it begins to swell and show signs of sprouting, when it is rolled in plaster and planted. The amount of seed required is 21 to 4 lbs. per acre, depending on nearness of drills; if radishes are sown with them, an equal bulk will be required. Early carrots for house use are sown as soon as the soil is fit to receive the seed; "early horn" is the best variety. Field carrots do better, sown from May 10 to June 10. The large Altringham, white Belgian, and long Orange, are the choicest varieties. The latter does not yield as much as the others, but is of finer quality. The white Belgian carrot gives the least trouble in field oulture. In England, carrots are

best grown on ridges, but in our warm climate flat culture is to be preferred. In gardens they are sown in drills 15 to 20 inches asunder, and cultivated by hand. In the field they are planted from 24 to 30 inches apart, grown more thickly in the drill, and tilled by horse power. The land is deeply ploughed, subsoiled, smoothly harrowed and rolled. The seed is sown from a drill barrow at a depth of 1 to 2 of an inch. Some drilling machines sow a special manure with the seed, which is advantageous in giving the plants an early start. Should any manure be required, it would be advisable to use soluble special manures, made with regard to the wants of the plant and the deficiencies of the soil. The best Peruvian guano, mixed with many times its bulk of muck or charcoal dust, will answer a good purpose, if ploughed in the soil before planting; 800 lbs. to 500 lbs. per acre will be required for a good dressing. Soluble superphosphate of lime, with about 1 its weight of guano, probably forms one of the best general manures for carrots. Ten bushels of common salt per acre will add to its value: and on most soils 25 or 50 bushels of unleached wood ashes dressed over the surface separately from and after the other manures, so that they will not come in immediate contact with the ashes, will increase the yield. After-culture consists in frequent stirring of the soil with Knox's horse-hoe or root-cleaner, or other similar instrument, which cuts close to the plant, and demolishes all weeds in spaces between the rows. In November the crop is lifted, by running a subsoil lifter close to a row of carrots at full depth, say 10 to 20 inches; this will loosen the whole soil, and the roots may be readily pulled, the tops removed with a knife, fed to the cattle, or left on the ground to be ploughed under for manure, while the roots are stored in a cool cellar, where an even temperature just above freezing is maintained; or they may be pitted in long narrow piles in the field, covered with 2 or 3 inches of long rye straw and several inches in depth of earth, leaving straw chimneys to ventilate the pits. fed to cattle, they should be washed in clean water, and cut in thin slices, and given alone The meal for fattening or with other food. cattle should be sprinkled over carrots, if rapid improvement is desired.

CARROUSEI, a chariot race, or a magnificent entertainment given by princes or other great personages, who appeared clothed and armed in the manner of ancient cavaliers. Tertullian ascribes their invention to the goddess Circe, and says that they were instituted in honor of the sun, and consisted at first only of chariot races; whence the name has been derived from the Latin carrus solis, the chariot of the sun. Carrousels were common among the Gotha, Moors, and Italians, and were introduced into France under Henry IV. They succeeded the jousts and tournaments, in one of which Henry II. had lost his life, but since the time of Louis XIV. have passed out of fashion.

The pl Lonnger and principal fable or history was resentation. The the court of the Louvre m 1 4 eiements, fire, air, earth, auu was cavaliers were attired in the characters a fauns, Mercury, Neptune, Orpheus. Louis XIV. a carrousel was cel-Tuileries, in which 4 nations v The king himself took command on and the Persians, Turks, and Mus commanded by the nobl were formed, and va eχ bats succeeded. The broke lances with each other, vus more way ly against a wooden figure.

CARSON, CHRISTOPHER, popularly known a KIT CARSON, an American mountaineer, traper, and guide, born in Madison co., Dec. 24, 1809. While yet an infant his fa emigrated to what is now Howard co., Mo. At 15 years of age he was apprenticed to a midwith whom he continued 2 years, when he joined a hunting expedition. The next 8 years of his life were passed as a trapper, which p suit he relinquished on receiving the app ment of hunter to Bent's fort, where he co ued for 8 years more. At the expiration of this time, he made a short visit to his family, and on his return chanced to meet Col. the Lieut. Fremont, by whom he was engaged guide in his subsequent explorations. In 1867 Carson was sent to Washington as beare of despatches, and received an appointment s lieutenant in the rifle corps of the U. S. arm. In 1853 he drove 6,500 sheep to California a difficult but successful undertaking, and on his return to Taos was appointed Indian agent in New Mexico.

CARSTAIRS, WILLIAM, a Scottish division in 1649, died in 1715. He was educate at Edinburgh and Utrecht, and devoted his self warmly to the prince of Orange. He was minister of an English church at Leyden; returning home, he took offence at the o of the Episcopal party, through whose in he was arrested, after which he retired as Holland. He was brought back on a che having been accessory to the Rye House pland put to the torture. He was dismissed, wi the king's pardon, and again went to He land, where he rose still higher in favor with the prince. He contributed much, as XI William's chaplain, to the establishm Presbyterian government in Scotland. De the reign of Anne he still retained his ch In 1704 he became professor of divis Edinburgh, and was 4 times moderator of the general assembly.

CARSTENS, Asmus Jaron, a German painter, born at St. Jürgen, near Schlassig May 10, 1754, died May 24, 1736. He was a miller's son, but received a superior education from his mother. He had a youthful passes ting, but after his mother's death was n a mercantile house. After quitting er, he went to Copenhagen, where he d on for 7 years, supporting himself by painting, at the same time working at historical picture on the "Death of

" He went to Italy after finishing this a lived at Lübeck for 5 years, toiling scurity, when he was introduced by the erbeck to a wealthy patron, by whose went to Berlin, where the merit of his f the Angels," a colossal picture, conover 200 figures, gained him a professorthe academy of fine arts. Two years' Berlin enabled him to accomplish his d wish to go to Rome, and study the Michel Angelo and Raphael. His best were designs in aquarelle, and painting o; he rarely painted in oil. His car-Weimar have been engraved by Müller. Pindar, Aristophanes, and Dante supim with his best subjects; and among iters who endeavored to infuse a classic ato the fine arts of the 18th century, he prominent position.

TAGO, a town of Costa Rica, Central a, stands on the river of the same name the base of the volcano of Cartago. It merly the capital of Costa Rica and a commercial importance, but in both rethas given way to the present capital, é. In 1841 it was almost entirely ruined rthquake, which destroyed nearly 3,000 and 7 out of the 8 churches. The popunce very numerous, is supposed to have d down to 5,000, and by some author-

n to 3,000.

rago, a town, pop. 5,500, on the Viehe state of Cauca, New Granada. It id straight streets, a spacious square, a il, 2 parish churches, and a good school. nate is dry and healthy, but very hot. ar-cane is cultivated with advantage in nity; the surrounding hills contain niminerals of various kinds are found in ice. Cattle, live pigs, fruits, coffee, cocoa, acco are the principal articles of trade. ГЕ, Тномая, an English scholar, born ifton, Warwickshire, April, 1686, died ingdon, Berkshire, April 1, 1754.—He it Oxford and Cambridge, received holy ind was appointed reader of the Abbey A sermon which he preached it Bath. 1714, in which he endeavored to vindiirles I. with regard to the Irish rebelgaged him in a controversy with Dr. r and led to his first publication, entitled ish Massacre set in a Clear Light." On ssion of George I. he declined taking the allegiance, and therefore relinquished esiastical office. In 1715 he was susf being implicated in the rebellion, and ged to conceal himself in the house of Mr. Badger at Coleshill. Having officisurate in that town for a short time, he secretary to the famous Bishop Atter-

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bury. In 1722 he was again strongly suspected of being concerned in the bishop's conspiracy. A reward of £1,000 was offered for his apprehension, but he escaped into France and remained there for a number of years under the assumed name of Phillips, until Queen Caroline obtained permission for him to return to England. In 1744 he again gave umbrage to the government, and was arrested in consequence of some apprehensions from the pretender, but soon discharged.—His principal works consist of the chief materials for an English edition of De Thou and Rigault, in 7 vols.; a "Life of James, Duke of Ormond," and a "History of England." The latter was published by subscription. A note in the 1st volume stating that some person had been healed of the king's evil by the touch of the pretender impaired the popular-ity of the work. Mr. Carte, however, procecuted his undertaking with undiminished zeal, but did not live to complete the 4th volume. which appeared in 1755. It was to have been carried down to the restoration, but does not go beyond the year 1654.
CARTE-BLANCHE (Fr. white card), a

blank paper with a signature, and sometimes a seal, at the bottom, intrusted to a person to be filled up at his discretion. The term is generally used in the sense of unconditional power given to a person to act as he judges best.

CARTEL, a writing or agreement between hostile powers for some mutual advantage, such as the exchange of prisoners. In France and Italy it also means a challenge or letter of defiance, but in England and America this sense is obsolete.—A cartel ship is a vessel used in exchanging prisoners or carrying proposals to an

enemy.

CARTER. I. A N. E. co. of Tenn., bordering on N. O.; area estimated at 350 sq. m.; pop. in 1850, 6,296, of whom 353 were slaves. It occupies some of the highest ground in the state. A range called Iron mountain, covered with timber and rich in mines of iron, extends along its south-eastern border. Watauga river and other streams supply the county with excellent water-power, which is extensively employed in ron works. The valleys are highly productive, and the harvest in 1850 amounted to 178,541 bushels of Indian corn, 94,851 of oats, 19,307 of wheat, and 76,656 lbs. of butter. Capital, Elizabethtown. II. A N. E. co. of Ky.; area about 550 sq. m.; pop. in 1850, 6,241, of whom 257 were slaves, separated from Virginia on the E. by Big Sandy river. The surface is hilly and broken. The soil near the rivers is tolerably fertile, but in other places unfit for cultivation. The mineral wealth of the county, however, is considerable, iron ore and stone coal being found among the hills in great quantities. The agricultural productions in 1850 were 279,777 bushels of Indian corn, 36,409 of oats, and 15,674 lbs. of wool. There were 4 churches, and 696 pupils attending public schools. There are salt springs of some value near Sandy river, and the grazing lands main-

tain numbers of cattle. Organized in 1888, and named in honor of William G. Carter, a member of the state senate. Capital, Grayson.

OARTER, ELIZABETH, an English authoress, born at Deal, in Kent, Dec. 16, 1717, died in London, Feb. 19, 1806. She translated Epictetus, and also wrote some poems, and numbers 44 and 100 of the "Rambler." Her poetie works exhibit much tenderness, simplicity of sentiment, and expressive sweetness. She was never married.

CARTER, James Gordon, an American educationist, born at Leominister, Mass., Sept. 7, 1795, died at Chicago, Ill., July 22, 1849. Having by his own exertions fitted himself for college, he entered at Harvard in 1816, in the same class with the celebrated mathematical writer Warren Colburn; it was during their college course that Colburn projected the little work which has attained such an important position in American education, the "First Lessons in Arithmetic," and its leading features were all discussed with Carter and arranged before they graduated. Mr. Carter took his degree in 1820, and immediately devoted his attention to teaching at Lancaster, Mass., in which employment he continued except for a short interval until 1880. In 1823 he contributed to the "Boston Patriot" a series of essays on education, which were subsequently published in a collected form, under the title of "Carter's Essays on Popular Education." In 1824 he followed these by "Letters to the Hon. William Prescott, LL.D., on the Free Schools of New England, with Remarks on the Principles of Instruction." In the essays, he first developed the idea of a seminary for teachers, or, as it is now generally called, a normal school. There is no reason to believe that Mr. Carter knew of the existence of such schools in Prussia, though, in fact, they had ex-In 1824 he went to isted there for some years. Boston and took charge of the "U.S. Review," which had at that time been united with the "Literary Gazette." In 1827 he presented a memorial to the legislature of Massachusetts, praying for aid in the establishment of a seminary for teachers with a model school attached. The proposition was not adopted, but the town of Lancaster appropriated a portion of land and the use of an academy building to the purpose, and Mr. C. purchased several dwelling-houses for the accommodation of his teachers and pupils, procured assistants, and opened his school. In a few months he was compelled to relinquish his project as a public enterprise, and confine himself to the reception of pupils into his own house, many of whom afterward became successful teachers in Massachusetts and elsewhere. In 1830 he assisted in the organization of the American institute of instruction, of which he was for many years an active member and officer. lectures before that body in 1880 and 1881 are among the most valuable contributions to its transactions. From 1885 to 1840 he was a member of the legislature, 8 years in the house and 2 in the senate. As chairman of the

committee (important granting anu struction; instruction or young ing establishments," and foresight; a bill for un superintendent of com: for the establishment or a fessional education of teacuers. made an unsuccessful effort to secure priation of one-half the U.S. falling to the state for the inaries for the education or remain in the same session a bill drafted by l lishing the board of education, houses. Gov. Everett appointed the first member of the board.

CARTER, NATHANIEL H., an American sthor, born at Concord, N. H., Sept. 17, 18, died in Marseilles, Jan. 2, 1830. He was decated at Exeter academy and Dartmouth of lege, and in 1811, after graduating, became a teacher at Salisbury, N. H., and subsequent at Portland, Me. In 1817 he was elected prfessor of languages in the university cre Dartmouth by the state legislature. stitution was soon broken up by a deci the supreme court, when he removed to See York, and became editor of the "States a political newspaper of that city. he was engaged by a gentleman of New Yto accompany his son on a visit to l wrote home letters descriptive of his the "Statesman," which on his r collected and published in 2 v OVU passed the winter of 1828 in Chun; year he undertook a voyage to

died soon after his arrival CARTERET, a county of North-dering on the Atlantic and Pamlice 450 sq. m.; pop. in 1850, 6,808, o. wa were slaves. Several long, narrow one of which is Cape Lookout, p arate it from the sea, and Newport re through it. The surface is level. is occupied by swamps and pine fore this county produced 40,225 bush. of . 54,760 of sweet motatoes, 2721 bs. of flax, 8,940 lbs. of rice, 3, 759 lbs. of beeswax and honey. sawmills, 12 tar and turpentine and the capital invested in \$44,400. The number of county was formed in 172, and of Sir George Carteret, one of of the land. Capital, Beaufort. CARTERET, PHILIP, an English

CARTERET, PHILIP, an English navigates was in the expedition commanded by Wallin 1766, on a voyage of discovery to the Seat seas. He discovered Queen Charlotte's bland other isles, 2 of which he called Gower and Carteret. A description of his voyage was given by Dr. Hawkesworth in the introduction to his narrative of Capt. Cook's first voyage.

CARTES, DES. See DESCARERS.

CARTESIANS, the name given to those phers who adhere to the system of UARTHAGE, the Carthago of the Romans, immer of the Greeks; Carthada in the Pue, signifying "new city," in contradison so the old or parent city of Tyre, found-u scoording to the legend by Dido, a Phoenician 878 B. C. Of the early history, first it, and chronology of Carthage, beyond that the original colonists were Phoeniis known. To judge by analogy, Carthage considerably older, as she was at a very period a far more important, city than It is said by Herodotus that Hamilking or chief magistrate of Carthage, a rinian by his father's, but a Syracusan r's blood, according to an agreesent will Aerxes, attacked Gelon and Theron, Greek leaders in Sicily at the head of u army consisting of 80 myriads, or 800,000, f Africans, Iberians, Ligurians, Helisycians, ardinians, and Corsicans, on the day of the attle of Salamis, 480 B. C. Now Herodotus ras 4 years of age at the time when the batwas delivered; and, as the Carthaginians rare constantly on the stage during his whole a it is most unlikely that he should have I them as bringing forces into the vuich they could not have brought. period, then, Carthage was supposed, by contemporary writer, to be capable of tranparing an army of 800,000 men to the island ily, where she notoriously had colonies carried on wars, at a time when Rome engaged in a struggle for existence against a city within 12 m. distance of her capiwhen she had not a territory of 80 m. circumference, which she could call her own; ta war ship affoat, for above 2 centuries afward; not a name that had been entitled to r consideration, nor a vestige of political imtance, beyond the regions lying immediately at the Tiber. That Carthage then had ships I commerce is evident, from the existence of ommercial treaty, bearing date of the year he 1st consuls, preserved by Polybius, which ne of the most interesting, as it is of the st ancient, documents of that character on ord. By this treaty, which Polybius (iii. 26) translated from the original brazen tas then existing in the capitol, among the arves of the ædiles, the language being so obte that, in some parts, even the more learned ong the Romans could only guess at the ming, it was stipulated that the Carthaginians Il make no conquests and build no forts on Latin coast, even on those parts of it which free; that the Romans may trade freely h Carthage herself, and the Libyan coast, vard of the Hermean or Beautiful promonnow Cape Bon, and with the island of dinia, and that on terms of particular comcial advantage. With Sicily and the inde-

dent Phœnician allied colonies Carthage

obtains for the Romans all the privileges which she herself possesses, and, in return, the Romans are prohibited from entering any port on the African coast, E. of the said promontory, which forms the eastern boundary of the gulf of Car-thage; the object of which prohibition seems to have been to exclude them from the rich country on the shores of the lesser Syrtis, and to preclude them from the direct enjoyment of the lucrative trade with Egypt, of which Carthage chose to retain the monopoly.—Of Ourthage, from herself, less is known than of any other nation of antiquity. She has left no literature, no monuments, no traces of her people or her language, with the exception of a few inscriptions on coins, and a few verses in one of the comedies of Plautus. Even among the writers of the nations with whom she carried on commercial business, and with whom she waged wars, the notices of her polity, of her population, of her religion, her manners, or her language, are few and far between. Although the waters of every sea were white with her sails, the shores of every land, hospitable or inhospitable, civilized or savage, were planted with her colonies or frequented by her mariners, no relic of her laws, her language, or her blood appears to linger upon earth. it not for the wars which terminated her existence not merely as a nation, but as an existing race or people, we should scarcely be aware of the existence of a city, the inhabitants of which had visited the Western isles, the Canaries and the Cape de Verds; had braved, if they had not crossed, the waters of the terrible Atlantic; and had excavated the rocks of Cornwall with their prodigious tin mines. Even of the Carthaginians in their wars, we know less as a people than of any other which effected such wonders, and fill such a space in history by their arms. It is, in a word, by the names and the deeds of her generals, several of whom were among the greatest of antiquity, not by the constitution, the composition, or the charac-ter of her armies, that we know her. Through Aristotle and Polybius, we have learned a little of her political system and her government, a little of her religion. Of her civic customs, her social habits, her domestic institutions, her amusements, her industry, with the exception of some few hints in relation to her navigation, her commerce, and her agriculture, we are totally ignorant; posterity has preserved no record. Whether she had a literature, we know not; whether, even, her own citize served at all as private soldiers in her armies, as private mariners in her fleets, is little certain. No writer, ancient or modern, has so concisely and ably brought together what is known of the great commercial republic of antiquity, as Dr. Arnold, in his "History of Rome," and from the fruit of his researches most of what follows is selected. middle," he says, "of the 4th century B. C., the Carthaginians possessed the northern coast of Africa, from the middle of the greater Bystis to the pillars of Hercules, a country reaching from long. 19° E. to 6° W., and a length of coast which Polybius reckoned at above 16,000 stadia. But, unlike the compactness and organization of the provinces of the Roman empire, this long line of coast was, for the most part, only so far under the dominion of the Carthaginians, that they possessed a chain of commercial establishments along its whole extent, and, with the usual ascendency of civilized men over barbarians, had obliged the native inhabitants of the country, whether cultivators of the soil or wandering tribes, to acknowledge their superiority. But in that part where the coast runs nearly N. and S. from the Hermman headland or Cape Bon, to the lesser Syrtis, they had occupied the country more completely. This was one of the richest tracts to be found; and here the Carthaginians had planted their towns thickly, and had covered the open country with their farms and villas. This was their mepioisis, the immediate domain of Carthage, where fresh settlements were continually made as a provision for the poorer citizens; settlements prosperous, indeed, and wealthy, but politically dependent, as was always the case in the ancient world; insomuch that the term περιοικοι, which in its origin expressed no more than 'men who dwelt not in, but round about a city,' came to signify a particular political relation, theirs, namely, who enjoyed personal freedom, but had no share in the government of their country. Distinct from these settlements of the Carthaginians themselves were the sister cities of Carthage, founded immediately, like herself, by the Phœnicians of Tyre and Sidon, although her fortunes had afterward so outgrown theirs. Among these Phænician colonies were Utica, more famous in Roman than in Carthaginian history; Adrumetum; the 2 cities known by the name of Leptis, situated the one near the western extremity of the great Syrtis, and the other on the coast, between the lesser Syrtis and the Hermman headland; and Hippo, a name so closely connected in our minds with the piety and energy of its great bishop, Augustine. These were the allies of Carthage, and some of them were again at the head of a small confederacy of states, who looked up to them for protection, as they in their turn looked up to Carthage. They enjoyed their own laws, and were independent in their domestic government; but in their foreign relations they found, in common with all the weaker states of the ancient world, that alliance with a greater power ended sooner or later in subjection." -In the beginning the Phænician settlers of Africa occupied their forts and domains by sufferance, and paid tribute to the natives, as an admission that they did not own the soil. Subsequently, like the Europeans in India, the settlers became sovereigns. The natives were driven back from the coasts and confined to the interior. They became mere tillers of the soil, but whether as owners, or merely as tenants, occupants, and cultivators of the land,

cannot they were r of Roman provin to severe taxatic -.. on the produce or the sour u . 1 war—and to conscription for service in the thaginian armies. Another point of similarity between the condition of the domain of Carthage in Africa, and that of the Angio-India empire, was the numerous race of half-cast sprung from the intermarriage of the settlers with the native women, known a Liby-Phoenicians, or Afro-Phoenicians. It cannot be determined whether these half-castes were to Carthage an element of power or of decord and weakness. It seems, however, the to send out colonies of these half-breeds to the Atlantic coasts of Africa, and probably of Spain also, beyond the pillars of Hercules I. appears, indeed, if the Greek version of the Periplus of Hanno may be trusted, that the circumnavigatory voyage so named was undertaken mainly for the settling of 80,000 of these Afro-Phœnicians on the African coast 8. of the straits of Gibraltar. So early as the 7th ca tury B. C., the trade of Carthage began with the Spanish seaports, especially with Tarte or Tarshish, situated on an island lying between the 2 mouths of the Guadalquivir, one of is now dry, a few leagues to the n Cadiz. And in the middle of the au of Rome, corresponding to the begin 4th B. C., the whole coast of Spain, bunn a tic and Mediterranean, was full of C trading ports and settlements, but mostly of small size, and lit if any o importance. Sardinia and L likewise, absolutely subject to on the shores of Sicily she had resses, trading posts, seaports, and for the use of their military marine. Am the natives of all these countries, as t mercenaries from Gaul, Liguria, and the of the Adriatic, were recruited the effective armics by which the C. maintained the quiet of their province the same time pushed their fore though at times the safety and e ence of the state was threatened gered by the revolt of these terrible . disciplined condottieri.—The poli tion of Carthage is said to have reof Sparta, in that it combined the monarchy, of aristocracy, and of -But it is difficult to ascertain ex were combined, or which preing the greater period of her ing her struggle with Rome, element prevailed, and it appears to an aristocracy of the very w tocracy namely in great wealth, not of birth; althocertain extent, a hereditary ... nished the 2 chief magistrates, who ly called kings and suffetes, w

by successive usurpations of the to functions and powers not differing ly from those of the doges of Venice. ere was a general assembly, which numerous, probably, as the Roman and represented the aristocracy in from which great assembly was secouncil of 100 life members, who osen, not by the assembly itself, but nittees of 5, which were close cor-

filling up their own vacancies, the of which were also all members both uncil of 100 and of the great assembly. rs, further, that the multiplication of the same hands was a part of the sysarthage, as it was at Venice, and that tes-a term identical with the Hebrew ich is rendered 'judges' in the Scrip-s well as the other principal magisought their dignities, whether by the of votes or by the payment of enes it is not stated, in such a manner i office was inaccessible except to the ie. So long as the suffetes and the rere agreed, it seems that the power ommons was exceedingly small; they her originating powers nor judicial; yet, as ample provision was made oorer classes, and as the surplus popuas always disposed of, profitably and eously to themselves, by a system of ion at the government expense, the ders remained for many centuries perisfied and contented with the constitheir country, until a very late period , when the progress of her democracy, as indisputably on the increase, was to a sudden close by the destruction y of Carthage, and the extirpation of aginian people. It is said by Polybiduring her wars with Rome, the conof the city became more and more ic, and he ascribes the ultimate vicome, in some measure, to their stable servative aristocratic government. guage of Phœnicia," says Dr. Arnold, ognate tongue with the Hebrew; if it , as is held by Gesenius and others of authorities, identical with the earliest of the Old Testament, and varying from e than does the dialect of the later It is evident, however, from hat the Carthaginian tongue seems to n nowhere studied by the inhabitants ons with whom they had treaties and commercial intercourse, even among learned men and the most distinguished that it could have contained little or worthy of preservation. Had there e either of wisdom or of art embodied ver works they had, we should have translations, known to us at least by an those of Mago's book on agriculof a few circumnavigations and mari-

time explorations. Of their architecture, their arts, we have neither a relic nor a record. their religion we know from Scripture and from more recent history, that it was a cruel and bloody superstition. They worshipped on high places, and they had sacred groves, as well as idols, which were held in particular abomination by the true followers and subjects of the Jewish theocracy, and which were yet constantly owned as gods, frequented and worshipped by the backsliders, both of the princes and of the people of Israel; a singular proof, if proof were needed, of the close connection, both in race and lan-guage, as well as in social habits and modes of thought, between the children of Israel and the Phænicians, whether of Syria or of Africa, who called themselves Kenaanim, which we render Canaanites, so late as to the time of St. Augustine, and so far from the place where the name first obtained as Hippo Regins, to the westward of the site of Carthage. Their principal god was Baal, Belsamen, or the ancient one, Moloch, as he was called by the Jewish rabbinical writers, who was considered by the Greeks as identical with Koores or Saturn, and who, in process of time, became in some features assimilated to Apollo. He was evidently the firegod or sun-god, and to him were offered the human sacrifices, of children more especially, who were placed on the extended palms of the metallic statue, whence they rolled into a flery furnace. To the sun-god was associated a fe-male deity, expressive, it is believed, of the productive power of nature under the generative power of the sun, worshipped as the queen of heaven, Ashtoreth or Astarte, who is identical with the Venus Mylitta of Babylon, the Avaits of Armenia, and the Venus Urania of Cyprus, of whose rites the sexual lusts were as distinct a feature, as was the flery death the head and front of those of the male deity. In Africa the worship of Ammon seems to have been associated with that of Baal, and of the sacred ele-phant; while that of Melkarth, the Punic Hercules, was celebrated by the lighting of yearly funeral pyres, and the release of an eagle, typical of the sun, and of the legendary phoenix renewing himself from his own ashes. offering of human sacrifices extended so far to the westward as to Cadiz, where there existed a temple and statue of Baal-Saturn, under the Roman dominion; and continued so late as to the times of the Roman emperors, more than one of whom published edicts in vain, prohibitors of these barbarous immolations."—The first period of the history of Carthage extends to the beginning of the war with Syracuse, from the commencement of the city, whenever that occurred, nominally B. C. 878 to 480; during which time she had conquered her African empire, Sardinia and the adjacent isles; waged wars with Massilia and the Etrurians, on commercial grounds; prosecuted her voyages of discovery, traffic, and colonization along the coasts of Spain, far out into the Atlantic; established trading intercourse with the Scilly isles and

CARTHAGE

parts of the British coast; and, as some believe, pushed her adventures so far as to the inhospitable shores of the Baltic, where she is reported to have collected amber at the mouth of the river Rhodam. Of this period we know nothing from records, either of her own or her contemporaries, and can judge only by her condition, the state of her trade and resources, and the extent of her dominions at the time when we first have any authentic information of her greatness, which is to be found in the commercial treaty with Rome alluded to above, passed in the year 509 B.C. Thirty years after this date commences the 2d, and by far the most splendid period of Carthaginian history. It opens with their efforts to conquer and attach to their empire the great, rich, and fertile island of Sicily, and closes 265 B. C., with the outbreaking of the first Punic The Syracusan war was waged long and with various success. In the simultaneous attempt of the Persians on the Hellenic, and the Carthaginians on the Sicilian Greeks, the latter were defeated at Himera, by Gelon, tyrant or king of Syracuse, with nearly as much loss as was their ally, Xerxes, at Salamis. As a condition of peace they were compelled to renounce human sacrifices in their Sicilian trading posts and settlements. In the war with Hiero, Golon's successor, they conquered and held in oc-cupation the cities of Himera, Selinus, and Agrigentum. With Dionysius they were for a short time at peace, and then employed themselves in consolidating their former conquests on the island, which were now very rich and strong, consisting of well-fortified seaports, fortresses, dockyards, naval stations, and garrisons, backed by considerable territorial domains of great productiveness and wealth. After the reestablishment of republicanism in the Greek cities by Timoleon, the Carthaginians were almost invariably unfortunate; but, during the tyranny of that singularly able adventurer, Agathocles, the war was pressed with so much vigor by them, on his attempting, after the policy of Dionysius, to drive them out of the island, that he was defeated, reduced to all but extremity, and besieged in his capital of Syracuse, when, by a masterly stroke, which doubtless suggested the similar enterprise of Scipio, he broke out of the beleaguered city with a portion of his army, and carried the war into Africa. There he overran the open country, took 200 townsfor Carthage had no fortified places to delay an invading army, and no native peasantry or agricultural citizens of whom she could make a levy on masse, with which to protect her soil—and, although he was twice personally called back to Sicily to quell mutinies and restore order in his home dominions, actually maintained himself 4 entire years on African soil, at the gates of Carthage, which he reduced to at least equal distress with that of Rome during the similar, but far more brilliant'invasion of Hannibal. At length his fortune turned, his armies in Africa were obliged to surrender, and in the year 306 B. C. he concluded a peace which re-

stored order to Bielly, and established in parties in possession of the territories each in before the breaking out of the war. After his death, the Carthaginians increased their posses sions and power in Sicily, and established the selves as actual masters and sovereigns of the Balearic isles, Corsica, Sardinia, and the Lipe-rian islands, thus girding the whole Roman seaboard with a belt of insular fortresses. Thus far, however, all was peace and amity between the two great republics of antiquity. In fact. immediately after the battle of Asculum, wice Rome was in considerable straits, owing to the prolonged occupation of Italy by Pyrrhus, king of Epirus, and to his continual successes, a Carthaginian fleet of 120 ships of war appeared 🕊 Ostin, and offered assistance against the Greek, who was in some sort regarded as a common enemy of both republics; and although the offer was declined, the commander acted in good faith toward the Romana, assisting them in their siege of Rhegium, and in other enterprises the end of which was to prevent the Sicilia Greeks from lending their aid to the king of Epirus and his allies, the Greek states of luir. The retreat of Pyrrhus, in the year 275 R.C. left the Romans almost undisputed masters d Italy, and the course of the next 10 years redered them absolutely so. In the mean time Carthage had become yet more infinential a Sicily, and was bent on converting influence and ascendency into empire and possessia. The little strait of Messina now alone divise the possessions and separated the armed forest of the two powerful, ambitious, encrosching, and already, it is probable, half-jealous state. Each, it is clear, already aimed at supremery Europe. Greece was already falling, if she h not fallen, into decrepitude, and could no los pretend, through want of concert and unit action, to any considerable power beyond her own limits. The Greek Egyptian empire of the Ptolemies, which was entirely isolated from the mother country, and which had long known Carthage by means of her commercial energy, on the tidings of the victory of Rome over the Greek arms of Pyrrhus, thought it advisable to seek intercourse and alliance with the street young republic of the west. In a word, Ros had made herself known and respected beyond her own shores, and the contest between her and Carthage was inevitable. It arose, as might have been expected, with the invocation of Roman aid by the Mamertines, belonging to Italian city of Sicily, against the Carthagi which being gladly rendered, as by a people seeking pretext of war, gave birth to the and Punic war, which broke out 265 B. C., and may be regarded as the commencement of the third period of Carthaginian history. This war le for more than 22 years. It was waged (with the exception of one invasion, by Marcus Regulus, of Carthaginian territory, which, in Regulus, of Carthaginian territory, which, in the outset successful, terminated in dienter, defeat, and the capture of the Roman general) either on the island of Sicily or un the waters

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On the latter, at first, ranean. suffered bloody defeats and marand reverses, in a word, suffiit the hardiest and most perseverand. Still they persevered, and alvuen the war broke out, they had not hip of war, a single mariner, or an ofhad seen sea service, in the end ob-he mastery of the Mediterranean, the last fleet which the Carthaginians e, in a terrible conflict off the island of a, at the W. angle of Sicily, and granted which their enemy sued for, on condithe Carthaginians should evacuate Sici-I the isles thence to the Italian coast, l Roman prisoners without exchange 1, and pay the expenses of the war, at of 3,200 Euboic talents, or \$3,337,888, e space of the 10 years next ensuing. ry was decisive, but the efforts it had e were prodigious. The census of the itizens, in those 22 years, had sunk ,797, to 251,222 men capable of bearwhile the decrease among the Latin n allies must have been at least equally id such was the exhaustion of silver lepreciation of brass, that the Roman per, from a full pound weight at the of the war, was reduced to 2 ounces e end of it. Twenty-two years of psed before the commencement of the war; and during the interval, although lost Sardinia, of which the Romans, eans to their credit, made themselves taking advantage of a mutiny of the nian mercenaries, Carthage had more ired all her losses, by the conquest and on of the vast and rich Spanish penini its virgin gold mines, and its bold and pulation, furnishing the best infantry orld, and an inexhaustible supply of nce to recruit the armies of the repuben 2 countries are equally desirous of 11 pretext suffices. But it was espepolicy of the Barcas, whose genius uered the whole of Spain in the last and, in the next, nearly conquered o, to bring on a war with that country zards; and Hannibal, the son of Hamdient to the idea to which he had been by his father in his childhood, and p with it foremost in his mind to many forced what he desired, by lay-, to Saguntum, an allied city of the on the seacoast, now Murviedro, and ig the Ebro contrary to protest, if not to he passage of Hannibal across the Alps. ries of the Ticinus, the Trebia, Thraand Cannæ, the defeat on the Metaurus death of Hasdrubal, the 16 Italian s, the simultaneous victories of the rms in Spain and Sicily, the transfer ir to Africa by the elder Scipio Africalefeat at Zama, and the total submission, n, and disarming of Carthage, are the incidents of the 2d Punic war. Alto-

gether they contain the history of the most marvellous contest that ever was maintained between the genius of a single individual, almost unassisted by his government, and the resources perseverance, and magnanimous constancy of a great nation. It is hard to say which is most to be admired, the unrivalled strategetic and political genius, the firm tenacity, wondrous skill, and deep wisdom of Hannibal, or the indomitable persistency, unhesitating devotion, and iron will of Rome. The 2d Punic war was concluded 201 B. C., by the virtual subjection of Carthage. An interval of 52 years followed, during which Rome constantly and steadily pursued her course of aggrandizement, by the wars against Philip, Antiochus, and Perseus, by which she subjugated Greece, and gained vast oriental lustre and ascendency, while, incited by the unrelenting hatred of Cato the censor, she encouraged her friends and allies to commit aggressions on Carthage; until at length, provoked beyond the limits of endurance, that city, in despair, took up arms to repel unendurable insult and provocation, forgetful or regardless of the clause in the late treaty which forbade them to take up arms on any pretext, or against any nation whatsoever, without consent of the Romans. After this, treacherously and dishonestly, the Romans, as the price of peace, extorted from them all their remaining ships of war, all their arms, military engines and supplies, compelled them to give 800 hostages, and then commanded them, as the only alternative by which to escape destruction, to abandon their city and seashore position, and to remove 10 m. inland. War was instantly declared, and for 8 years the unarmed, almost defenceless citizens of Rome's great rival maintained a warfare of despair. At the end of that space, a second Scipio, the son of Paulus Æmilius, the conqueror of Perseus, adopted by the son of the conqueror of Hannibal, took the city by storm, and destroyed it, razing it to the ground, passing the ploughshare over its site, and sowing salt in the furrows, the emblem of barrenness and annihilation. The city was 28 m. in circumference; the inhabitants fought from street to street, while the houses burned over their heads, during 17 days, until 55,000 persons, the whole of the survivors of a nation, were shut up in the ancient citadel called Byrse. where they surrendered at discretion, and were all sold into slavery. Hasdrubal only, the commander, with his wife, children, and 900 Roman deserters, took refuge in the temple of Asculapius, with the determination to defend themselves to the last, and die under the ruins of the last Punic edifice. The heart of the leader failed him, and while his wife and all his fol-lowers met the death from which he meanly shrank, he surrendered himself to be led in triumph, and to die by the hands of the Roman carnifex in the Tullianum. Long afterward, Oncer planted a small colony on the ruins of Carthage; and Augustus, his successor, built a city, of the same name, at a small distance, in order to

avoid the imprecations which it was the habit of the Romans to invoke on the rebuilders of any city destroyed by their arms. This place attained some eminence; it was conquered by Genseric, from the Romans, A. D. 439, and continued to be the seat of the African empire of the Vandals for about a century, when it was conquered by Belisarius in 534. It was finally destroyed by the Saracens in the caliphate of Abd el Melek, in the latter part of the 7th century, and no vestiges of it remain except the ruins of an aqueduct, and a fragment of the western walls, at about 12 m. from Tunis.

CARTHAGENA, or CARTAGENA, a province of New Granada, South America, bounded N. W. and W. by the Caribbean sea and the gulf of Darien, N. E. by the province of Savanilla, E. by the rivers San Jorge and Magdalena, S. by the province of Antioquia; pop. in 1851, 103,-783. In the N. the surface is low and partly covered with salt-water pools. The S. part is mountainous and thickly wooded, but has many fertile valleys, in which are produced rice, Indian corn, cotton, and sugar. Various rich fruits grow spontaneously, and the forests produce valuable timber. The trade, once very Various rich extensive, has declined considerably, and the principal exports now consist of precious met-als. There are no large rivers except those on the E. border.—CARTHAGENA, OF CARTAGENA, the capital and chief town of the above-described province, one of the principal ports on the Caribbean sea, and the chief naval arsenal of New Granada, is built on a small sandy peninsula, near the entrance to the gulf of Darien, connected with the mainland by narrow necks of land and wooden bridges; pop. in 1851, 83,-700. The harbor is well protected, commodious, and the only one on the N. coast of New Granada fitted for repairing vessels. There were formerly 2 entrances, one close to the town, the other several miles further S.; but the better to defend the approach, the former has been blocked up by sinking old vessels in it. The defences of the town are extensive, though singularly incomplete. Both Carthagena itself and the island suburb of Xiximani are surrounded by freestone fortifications, which are commanded by a strong work on an eminence on the mainland, but the latter is overlooked by a range of heights towering 400 feet above it, which, though they have several times caused the fall of the city without a shot, have never been fortifled. On their summit is an Augustinian monastery. Carthagena is well built, with stone houses, generally 2 stories high, having balconies and lattices of wood. Many of the churches There are 2 and convents are very handsome. hospitals, a town hall, a college with about 200 pupils, a strong citadel, a theatre, and a circus. The climate is hot and unhealthy; leprosy and yellow fever are the most common diseases, but greater attention to cleanliness has lately diminished the ratio of mortality. The chief manufactures are ropes and sail-cloth. The exports, comprising most of the produce of the

valleys of the Cauca and Magdalens, with the latter of which rivers Carthagens is connected by canal, viz., sugar, cotton, coffee, tobacco, hides, specie, bullion, &c., amounted to \$500,000 in 1852; and all the imports, which consist of iron, steel, copper, hardware, chinaware, mechinery, tea, pimento, brandy, rice, sugar, cocoa, coffee, wax, dye-wood, dre., to \$2,000,000. Carthagena was founded by Pedro de Heredia in 1538, pillaged several times by pirates takes by Sir Francis Drake in 1586, by the French in 1697, and besieged unsuccessfully by the Eaglish in 1741. It was the first town that declared for independence, and during the war

that followed, often changed hands.
CARTHAGENA, or CARTAGENA (anc. forthago Nova, New Carthage), a seaport town of Spain, capital of a district of the same name in the province of Murcia; lat. 37° 36' N., log. 0° 56' W.; pop. including suburbs in 1852, 31. 593. It is built at the head of a deep, wellsheltered harbor, flanked by steep hills, defeat ed by works at its mouth, and forming cond the best ports on the Mediterranean. The town itself is walled and neatly built; the streets are wide, regular, and relieved by ar eral public squares, one of which, with a fe fountain in its centre, is enclosed by elegate buildings. The old cathedral, now a simple church, is an edifice of little beauty. There are several other churches, convents, her an observatory, an artillery park, a spin arsenal, barracka, dock yards, founderies, re walks, and a glass factory; but little activity is observable in the streets, and every thing bust the mark of rapid decay. Notwithstanding in commodious port, the town has little or no conmerce. The inhabitants are employed chiefy in lead and silver mining, fishing, and exporting be rilla, grain, and esparto (Spanish grasshem). The mineral wealth of the neighborhood was known in very early times, and the yield of siver enabled Hannibal to carry on his war again the Romans. The new mine of La Carmen was opened in 1889, and the veins have since be successfully worked by a joint stock compa Carthagena was founded by Hasdrubal, the Car thaginian general, 242 B. C.; was taken by Scipio, 210 B. C., at which period, Livy states, it was one of the richest cities in the world; was almost destroyed by the Goths, rose to gre importance in the time of Philip IL, and is 1786 had 60,000 inhabitants. It was made the great naval arsenal of Spain, but is now vis only by a few fishing and other craft, and by coasting vessels, which make it one of their is Its decline is owing in termediate stations. some measure to its unhealthy climate.

CARTHAMUS, the dyer's saffron or saf flower.. The plant known as the certhe tinctorius, from which this flower is obtain is a native of India and Egypt. It is important the United States principally from the Mediterranean. It is grown in consi quantities in this country, under the ne American saffron. The flowers, the only part

contain 2 coloring matters, one red, the yellow; the red, insoluble in water, and vellow, easily removed by treating it with quid. The red alone is employed in dyeiquid. The red alone is employed in dye-it is called carthameine, and is supposed we its color to the oxidation of a peculiar suciple called carthamine, existing in the stals. The yellow coloring matter is removed y soaking the flowers placed in a bag in rater, until nothing more can be dissolved. The carthamus, which before was reddish yelow, loses half its weight, and becomes a clear ed. The red coloring matter is then extracted rom the flowers, in treating them with a dilute plution of carbonate of soda, and adding an kid to precipitate the carthameine. The quanobtained is only 1 per cent. of the weight Carthamine is a most beautiful flowers. but unfortunately is not permanent, so

otton; but for silks, where a brilliant rather han enduring color is desired, carthamus is th used, for producing the finest shades of eu, such as rose and flesh color. Carthamus is used for preparing a very beautiful color rouge d'assiette), which is employed in coloring rt al flowers. A vegetable rouge is also usctured from it, by mixing with the rouge to finely pulverized white talc. is then rubbed in a mortar with a little ris, and moistened with sulphuric ether. n merior rouge is sometimes prepared by

annot be employed in the dyeing of wool and

stituting carmine for carthamine.

UARTHEUSER, JOHANN FRIEDRICH, a Geraphysician, born Sept. 29, 1704, died at Frankton the Oder, June 22, 1777. He studied Micine first at Jena and afterward at Halle, here he was admitted to the degree of docin 1731. He was appointed in 1740 prosor of chemistry, pharmacy, and materia dica, at the university of Frankfort on the er, and shortly afterward to the chair of stomy and botany. Still later he was named fessor of pathology and therapeutics. He s also appointed rector of the university, and itinued to hold his appointments as long as lived. His chief merit consists in having roduced the method of submitting the vaus substances of materia medica to a strict ord of chemical analysis. He analyzed a great mber of plants and other substances, and re an exact account of the elements which er into their composition. He published a asiderable number of scientific papers and sertations, on many and various subjects, ring a long succession of years. CARTHUSIANS, a religious order, founded

St. Bruno, A. D. 1084. The first monastery the order was built in a wild and solitary trict 6 miles from Grenoble, in the departnt of Isère, known as La Chartreuse, whence order took its name. The observances of Carthusian monks were austere and peniitial in an extraordinary degree, even among itemplative orders. They devoted a portion their time to manual labor, consisting chiefly in the transcribing of ancient MSS. Their labors as agriculturists gained great renown for their name, for they reclaimed marshy and unhealthy neighborhoods, and caused the rocky and barren fastnesses of La Chartreuse and other desert regions to bloom with the fruits of patient and intelligent toil. They had rich and celebrated abbeys in England, France, and Germany. The Certosa of Pavia, and that of St. Elmo at Naples, are still visited by travellers, and a Carthusian community occupies as a convent the baths of Diocletian in Rome.

CARTIER, Jacques, a French navigator, born at St. Malo, Dec. 81, 1494, died probably at an advanced age. Under the suspices of Francis I., he was intrusted with the command of an expedition to explore the western hemisphere. He sailed from St. Malo, April 20, 1584, with 2 ships of 60 tons each, and a crew of 120 men, and in 20 days reached the E. coast of Newfoundland; thence steering N., he entered the straits of Belle Isle, and took possession of the coast of Labrador by planting there a cross near Rock bay. He next turned S., and followed the W. coast of Newfoundland to the straits between Capes Ray and Breton, when he was borne W. by unfavorable weather toward Magdalen islands. After visiting them, he continued W., landed at the mouth of the Miramichi, whence he went with some of his men to explore the bay of Chaleurs, and a few days later sailed with his 2 ships, to land again a little further N. in the bay of Gaspé, which he mistook for the outlet of a large river. there had friendly intercourse with the savages, and inspired them with such confidence, that one of their chiefs permitted 2 of his sons to g with him to France, on condition that he would bring them back the following year. There bring them back the following year. There he planted another wooden cross, to which was attached a shield bearing the arms of his king, and the words, Vive le roi de France! He next proceeded N. E., doubled the E. point of Anti-costi, and entering the channel which separates the island from the continent, sailed up that branch of the St. Lawrence, not being aware, however, of the existence of the river. winter was approaching, he thought it prudent to return, again passed the straits of Belle Isle, and arrived at St. Malo Sept. 5, 1534, after an absence of less than 6 months. This successful voyage encouraged the king to new efforts: 8 well-furnished ships were fitted out for another expedition, which was joined by some of the young nobility of France, and Cartier was appointed commander, being designated in the commission as "captain and pilot of the king." About the middle of May, 1585, Cartier assem- . bled his companions and men on Whit-Sunday, and repaired to the cathedral, where a solemn mass was celebrated, after which the whole company received absolution and the bishop's blessing. The squadron—consisting of La Grande Hermine, a vessel of 120 tons, La Petite Hermine, of 60, and L'Emérillon, a smaller craft—sailed May 19. Storms soon separated the 3

vessels, which, after a rough voyage, arrived successively at their place of rendezvous, the inlet of Blanc Sablon, in the straits of Belle Isle. On July 81 they sailed W., entered the channel between the mainland and Anticosti, which he called Ile de l'Assomption; sailed up the river St. Lawrence; saw, Sept. 1, the mouth of the Saguenay; and on Sept. 14 came to the entrance of a river, some 80 m. below Quebec, to which he gave the name of Sainte Croix. The next day he was visited by Donnacona, an Algonquin chief, with whom he was enabled to converse, the 2 Indians whom he had the previous year taken from Gaspé to France acting as interpreters. Leaving his 2 larger ships safely moored, he, with the Emérillon, sailed up the stream as far as Lake St. Peter; there, his further progress being interrupted by a bar in the river, he took to his boat with 8 volunteers, and on Oct. 2 arrived at an Indian settlement called Hochelaga, which he called Royal Mount, whence the present name Montreal. On the 5th he left Hochelaga and rejoined his ships at the mouth of the Sainte Croix, where he passed the winter. With his men, he suffered from the severity of the climate, but above all from the scurvy, which made frightful ravages among them; no less than 25 soon died; and out of 110 still surviving, in Feb. 1536, only a few were free from the disease. Owing to the reduction of their number, Cartier decided to abandon the Petite Hermine, which vessel was discovered in 1848 embedded in the mud. After having taken solemn possession of the land in the name of Francis I., by erecting a cross bearing the arms of France, with the inscription, Franciscus primus, Dei gratia Francorum rex, regnat, he sailed May 6, carrying with him Donnacona and 9 other chiefs, whom he had somewhat treacherously kidnapped; went through the channel S. of Anticosti, and the straits S. of Newfoundland, and once more reached St. Malo, July 16, 1536. The hardships which had been incurred during the expedition were not choouraging to colonization; but at last the entreaties of Francis de La Roque, lord of Roberval in Picardy, prevailed; he was appointed viceroy and lieutenant-general of the new territories, while Cartier preserved the title of captain-general and chief pilot of the king's ships. Five vessels were now fitted out; Cartier sailed with 2 of them, May 28, 1541; he was soon joined by the 8 others, and they arrived at Sainte Croix Aug. 23. On exploring the neighboring country, Cartier found a better harbor at the mouth of the Red river, to which he took 8 of his ships, while the 2 others returned to France after landing their cargoes. Cartier then visited Hochelaga for the 2d time, with the particular purpose of ascertaining the obstructions to further navigation. The winter passed in gloom. Toward the end of May, 1542, nothing having been heard from Roberval, provisions becoming scarce, and the savages evincing unfavorable feelings, Cartier sailed for France. On his way he met Roberval, who

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and continuous in the series of the village of Limonous; the unite of the village of Limonous; the uniteresting was in the series of Charles are inserted in the 3d vol. of Ramusio's Italia collection (Venice, 1565), also in Mare Lambot's Histoire de la Nouvelle France; while adsertiption of his 3d journey is to be found in the 3d vol. of Hakluyt's "Principal Navigation,"

&c. (1600). CÀRTILAGE, a firm, electic substance d an apparently homogeneous structure, besi some analogy to bone, and entering largely in the composition of the animal skeleton; in in intimate structure it approaches very closely the cellular tissues of vegetables. It constitutes the rudimentary skeleton of the higher mol and of the selachian fishes, hence called ertilaginous fishes, in man and the higher animals, it forms the internal skeleton at the early periods of life, and is in all employed === nidus for the development of b organic basis of cartilage is a vi called chondrine; this, like ; solution solidifies on cooling, man a cipitated by alcohol, creosote, tannio corrosive sublimate, and is not pre ferrocyanide of potassium; but, am it is precipitable with acetic and and other acids, with alum, persi and acetate of lead. True ca white or bluish white appearance: lage is of a yellowish color, and ex structure. Temporary cartilage come ossified; for a considerab-birth the ends of the long bones are chiefly of cartilage, and the ex united to the shafts by bone unia au year. Permanent cartilages are div kinds, the articular and the membras skeleton of the selachians is 1 tilage. Articular cartilages cobones entering into the fo either a thin layer between w bones, as those of the cranium sacrum, or incrusting the ing ball-and-socket and braniform cartilages have tion, but serve to keep open cal the mere force of their elasticany, cartilages of the external ear, no eyelids, Eustachian tube, and The distinguishing characters elasticity, flexibility, and cohese not easily broken, and will spe proper shape wi These varieties or lar, are covered wim a analogous to the p me serves as support to use simplest form of

large, ovoid, more or less flattened by their contact; the diminutive nucleus, attachwo me cell wall, contains a minute nucleolus; cells are scattered irregularly in an intercellular substance, or hyaline matrix, which sestains numerous granules, many of which, according to Hassall, must be regarded as the eytoblasts from which new cells are developed; amount of this substance is greatest in the fully developed cartilage. In the condensed margin of true cartilage, the cells are compressed, with their long diameters parallel to the mrace they cover; when ossification begins in temporary cartilage, the cells become disposed in rows as described in the article on Bonz. In the articular cartilages the cells are arranged in small groups in an abundant hyaline matrix: they measure from $\frac{1}{1300}$ to $\frac{1}{100}$ of an inch; in their deep portions these cartilages gradually blend with the bone, which dips unevenly into the e of the cartilage. In the cartilages of cells are larger than in any other, often have a linear arrangement, and are ded in a very abundant intercellular subwhich sometimes presents a distinctly acture, though not resembling white es. In the membraniform cartiwe cous are very numerous in proportion intercellular substance, which is so fibrous character in the external ear as to apa very near to fibro-cartilage; the ear of is a good specimen of this form, and and its central portion a series of sixcells arranged in layers one above the , resembling, except in size, the transverse on of the pith of a plant. Cartilage is somes found as an accidental and diseased prod-Enchondroma is a tumor attached to bone. ining cells like those of cartilage, and others - peculiar form resembling the lacuns of In the articulations, especially in the DO. e joint, loose rounded bodies are often found a cartilaginous consistence, frequently as rge as the knee-pan; these interfere with the otions of joints, and are sometimes removed by eration. The cartilage cells of reptiles are er than those of fishes, being largest in the a; in birds cartilage is very early coned into bone, so that they have very little it except in the joints; the largest cells the mammals, according to Mr. Quekett, e found in the elephant. Cartilage belongs ular substances, as considerable s are found unpenetrated by a single articular cartilage is non-vascular, sept in some diseased conditions when the esence of a few vessels seems to have en detected; temporary cartilage also, when ll mass, has no vessels, but when of con-

ll mass, has no vessels, but when of conrade thickness, the delicate extensions of
investing perichondrium penetrate it in a
rtuous manner; the membraniform resemble
e temporary cartilages in respect to vascularr. The nutriment of articular cartilage is
rived from the vessels of the joint, and from

the synovial membrane, though none of these enter its substance, the nutrient material passing from cell to cell by imbibition; in cartilages of ossification vessels regularly appear, accompanying the process of bone-formation. According to Hassall, cartilage cells are multiplied in 2 ways: 1, by the division of a single cell into 2 or more parts, each becoming a distinct cell; 2, by the development of cytoblasts in the intercellular substance, or in the parent cells, constituting a true reproduction, constantly going on. In this multiplication by division, and by development of secondary in parent cells, cartilages resemble the alga, and herein they stand alone in the animal economy. tilage cannot be regenerated; fractured aurfaces are united only by a condensed cellular tissue. As cartilages do not contain nerves and vessels, they are not subject to inflammation and its consequences; the so-called ulceration of cartilage is effected, not through the cartilage itself, but by the vessels entering it from bone and synovial membrane, and occasioning a partial erosion.—There is a form of tissue which may be described here, as it differs from cartilage chiefly in having its intercellular substance replaced by white fibrous tissue; it is therefore called fibro-cartilage. It occurs principally in the joints, where its strength and elasticity are most needed. Its color is white, slightly tinged with yellow, with the shining fibres of the white fibrous tissue quite conspicuous; its consistence varies from pulpy to very dense. The fibres are arranged in an intricate and interlaced manner, strongest in that direction in which the greatest toughness is required. To the strength of fibrous tissue is added the elasticity of cartilage; its vessels are few and derived from adjacent textures, and no nerves have been detected in it; its sensibility is low, and it has no vital contractility. The disks between the vertebres are fibro-cartilage; their elasticity diminishes the shocks to which the spinal column is necessarily subjected; in the whale these disks are very large, detached from the vertebral bodies, and more or less ossified. In the diarrhrodial joints, as in the sterno-clavicular, temporo-maxillary, and knee joints, there are fibrous lamina, free on both surfaces called menisci; in these the circumference is fibro-cartilage, and the centre more cartila-ginous. On the edges of the shoulder and hip ginous. On the edges of the shoulder and hip joints is a rim of fibro-cartilage, giving depth to the articular cavities. In the grooves in bone for the lodgment of tendons we find another instance of the occurrence of fibro-certilage. Fibro-cartilage is not so prone to ossification as the simple fibrous structures; it is repaired by a new substance of similar texture; in cases of false joint from the non-union of fractured bone, the broken ends are sometimes connected by fibro-cartilage. The pubic bones at the symphysis are united by this tissue. Fibro-cartilage is less soluble in water than true cartilage, and yields therefore less abondrine.—The uses of certilege and fibro-certilege are entirely of a

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mechanical nature; their structure is admirably adapted for the protection of organs by their solidity, flexibility, and elasticity. For a complete account of the intimate structure of articular cartilage, the reader is referred to a paper by Dr. Joseph Leidy, in vol. xvii. of the "American Journal of Medical Sciences," new series, and to the works of Müller, Todd and Bowman, Hassall, and Quekett.

CARTOON (It. cartone, from Lat. charta, paper), a picture drawn upon thick paper, with white and brown, or black, and intended to be a model for a fresco, or for tapestry. When the cartoon is used, its back is covered with black lead, and being placed against the wall or canvas, the outlines are traced with a pointed instrument. Sometimes the outlines are pricked through, and a coloring matter rubbed over it. Or, by drawing intersecting lines on both the cartoon and the canvas, forming squares equal in size, by their guidance, a copy may be made correct in position and proportion. Cartoons exhibit the greatest efforts of some of the masters in painting. There are 7 by Raphael, now in Hampton Court, England, which probably are not excelled in completeness and beauty by any paintings in existence. Leo X. employed Raphael to make designs for tapestry, and 2 sets were finished in tapestry at Arras in Flanders. One set, supposed to have been originally 25 in number, was sent to Rome, and was carried away twice: first in 1526, afterward restored entire; the second time in 1798, and all but one restored in 1814, which was supposed to have been destroyed for the gold used in its making. The cartoons themselves were kept as lumber in the factory in Flanders, until, on the recommendation of Rubens, Charles I. of England purchased the 7 which had escaped destruction. They were much injured by being pricked and cut in tracing them for the canvas. When the royal collection was sold, these cartoons were preserved to England by Cromwell's special command. During the reign of Charles II. they were consigned to neglect, but William III. had them placed in Hampton Court. They represent the following subjects: "Paul preaching at Athens," the "Death of Ananias," "Elymas the Sorcerer struck with Blindness, "Christ Delivering the Keys to St. Peter," the "Sacrifice at Lystra," the "Apostles heal-ing the sick in the Temple," and the "Mira-culous Draught of Fishes." Two cartoons of Raphael, said to belong to a set which was sent to Flanders, are in the possession of the king of Sardinia. The Palazzo Gualtieri at Orvieto contains a valuable collection of cartoons by Domenichino, Annibale Carracci, Franceschini, Albani, &c. In the Ambrosian library at Milan is the original cartoon of Raphael's "School of Athens," the fresco of which is in the Vatican.

CARTOUCH, (Fr. cartouche), in old military works, used sometimes as synonymous with case or grape shot. It is also now and then used to

scription. CARTOUCHE, Louis D MOUTE & 1 French robber, born in l Nov. 28, 1721. He o peradoes, whose robbe... water bear terror among the Parisians. For deed, notwithstanding a high put on his head, he baffled th was but accidentally arrested. His ti lasted for several months, created a tion; and an immense crowd ness his execution. He was wheel alive; but to the l and himself were under two suppre-would be forcibly rescued by his c

CARTRIDGE, a paper, parcl nel case or bag containing the e gunpowder used for the ch and to which, in some inst is attached. Blank cartridge, for does not contain a bullet; ball In all small-arm cartridge the a wad, and rammed down. the French Minié and British L steeped in grease at one end, so as ramming down. That of the P gun contains also the fulminating exploded by the action of the needle. for cannon are generally made of a other light woollen cloth. In those for field service at least ! tile attached to the cartridge by wooden bottom whenever practicab French have partially introduced this. even into their naval service. have cartridge and shot sep well as in naval and si nious method of making paper car seams has been lately introduced arsenal. Woolwich, England. drical hollow moulds, just large e cartridge to slip over, are perfo multitude of small holes, and bei into the soft pulp of which ca made, and then connected with --receiver of an air-pump, are ed with a thin layer of the pup. dried, is a complete paper tube. are arranged many together: and provided with a worsted co of a glove, upon which the this being taken off with it server with which the best cartridges are A kind of cartridge is in use I made of a network of wire shot only. It is included in paper. The charge of shot idust to give compactness. fired, the shot are carried a greater distance without s charged in any other way. CARTWRIGHT, EDMUND, an English de

entor of the power loom, born at Marnvottinghamshire, April 24, 1748, died 1, 1828. Being intended for the church ived his education at Oxford, and soon upon the duties of his profession. His ife was passed in lettered ease, and was ly devoted to poetical composition. the summer of 1784 happening to be lock, he had a conversation with some ien from Manchester on the subject of ical weaving. He had never till now, 40th year, taken any interest in me-, but by April of the succeeding year, his first power loom in running order. rention was opposed equally by spinners The one class saw in it a ir workmen. e that would deprive them of bread; the ared it was a device that would diminish rofits. A mob set fire to the first factory ned it with 500 spindles. Improvements idded to the original machine, and it made its way. For many years, however, ight derived no pecuniary benefit from ention. He patented several other maof which the principal was one for wool-Numerous societies awarded him ms, but he received no substantial beneany of his inventions until 1807, when, nemorial of the principal cotton spinners, ent voted him £10,000. This sum placed easy circumstances. He devoted his time eriments in the adaptation of steam to boats and carriages, but died without g any important result.

tTWRIGHT, John, elder brother of sceding, an English political reformer, rn at Marnham, Nottinghamshire, 1740, ept. 23, 1824. At the age of 18 he the navy, but at 35 was still a lieu-

Meantime the struggle between Brit1 her colonies enlisted his sympathies
Americans. In 1774 he published his
ints in an essay entitled "American
idence, the Glory and Interest of Great."
At the same time, he requested
placed on the retired list, rather than
gainst the colonists. Lord Howe vainly
ted to shake his resolution in this re-

Having retired to Nottinghamshire,

he possessed some property, the lord ant gave him a commission as major militia. His appointment gave great to the government, who signified their obation so pointedly to the lord lieuthat he refused Cartwright the usual promotion to the lieutenant-colonelcy, of successive vacancies occurred in acc. Finally he retired from the regi-1792. About this time he removed to ishire. His name now becomes promathe history of parliamentary reformatended for annual parliaments and unisuffrage. These he supported with voice n, in cooperation with Dr. Jebb, Granharpe, Horne Tooke, Hardy, Thelwall, t, Hunt, and other liberals of the day.

Mainly through his instrumentality the citizens of Birmingham were induced to elect a delegate claiming a sest in parliament under the name of their legislatorial attorney, although that city, the 8d in the kingdom, had no representation in that body. For his share in this proceeding, Cartwright was tried for sedition, and fined £100. Again, when procuring signatures in Huddersfield to a mammoth petition, he was arrested on a charge of exciting to riot, but released. The English liberals placed much reliance in the integrity of his purposes. Sir William Jones declared that his declaration of the people's rights should be written in letters of gold. Fox, in his place in parliament, declared that few men united so complete a knowledge of the peoples' constitutional rights, with such high intelligence, and such conscientious views. Byron, in the house of lords, declared that his long life had been spent in one unceasing struggle for the liberty of the subject. His views on the American revolution were summed up in this sentence: "The liberty of man is not derived from charters but from God, and is original in every man." He was one of the earliest who maintained the doctrine that the slave trade was piracy. A bronze statue is erected in his honor in Burton-crescent, London. His life was published by his niece (2 vols. 8vo.

Lond., 1826).
CARTWRIGHT, THOMAS, a Puritan divine, born in Hertfordshire about 1585, died Dec. 27, 1608. He studied divinity at St. John's college, Cambridge; afterward he turned his attention to the legal profession, and became clerk to a counsellor at law. Eventually, however, he returned to the university, and was chosen fellow of St. John's in 1560. In 1570 he was chosen Lady Margaret's reader of divinity, and while he occupied that chair he provoked the hostility of Sir William Cecil and Dr. Whitgift, by the constancy with which he advocated the Puritan doctrines and discipline; and in 1571, when the latter became vice-chancellor of the university, he was deprived of his professorship, and, in the following year, of his fellowship. He now repaired to the continent, where he became acquainted with the most eminent Puritan divines in the Protestant universities of Europe, and subsequently was chosen minister to the English merchants at Antwerp and Middleburgh. At the end of 2 years, at the solicitation of his friends, he returned to England, and published a second admonition to parliament in behalf of the Puritans. A protracted controversy with Whitgift, afterward archbishop of Canterbury, was the result of his publication, and Cartwright had again to expatriate himself to escape from his opponent. While abroad, he officiated as minister to English communities. In 1580 James VI. of Scotland offered him a professorship in the university of St. Andrew's, which Cartwright declined. He was imprisoned on his voluntary return, but was released through the influence of Burleigh and Leicester. Leicester made him master of the hospital which he had founded at Warwick. He was again committed to prison at various periods, and did not obtain his liberty until 1592, when he was reinstated in his mastership of the Warwick hospital, and was again permitted to preach. His "Confutation of the Rhemish Translation, Glosses, and Annotations on the New Testament," was not published till after his death, in 1618. He was also the author of several other works.

CARUPANO, a town of Venezuela, on the coast of the Caribbean sea, finely situated at the opening of 2 valleys, in the province of Cumana, within a few miles of Cariaco. Its harbor is defended by a battery, and it has considerable traffic in horses and mules. Pop. about 8,000.

CARUS, KABL GUSTAV, a German physician and naturalist, born in Leipsic, Jan. 8, 1789. After pursuing the usual course of study in the gymnasium and university of his native place, he devoted himself to chemistry, with a view of rendering his knowledge useful in the workshop of his father, who was a dyer. He soon, however, left chemistry for medicine, and graduated as M. D., in Leipsic, in 1811. Engaged as teacher in the university, he was the first to deliver there a distinct course of lectures on comparative anatomy. In 1813 he was appointed to the French hospital established at Pfaffendorf, near Leipsic, and by his devotion to his patients contracted a severe illness. following year, on the reorganization of the medico-chirurgical academy of Dresden, he was appointed professor of midwifery, and at the same time had the clinical direction of the lying-in hospital. In 1827 Carus resigned his professorship on being appointed physician to the king of Saxony, with the title of royal and medical councillor. He continued, however, to medical councillor. lecture, and in 1827 delivered a course of lectures on anthropology, and in 1829 on psychology, which added greatly to his previous reputation. In the latter year he attended Prince Frederic Augustus, the present king of Saxony, on his tour through Switzerland and Italy. Beside his professional and scientific labors, Dr. Carus is a painter of marked talent; many of his pictures are much esteemed by amateurs. The reputation of Carus rests mainly on his discovery of the circulation of the blood in insects, for which he received a prize from the French academy of sciences, and his contributions to the history of development in animals. principal works are Versuch einer Darstellung des Nervensystems, und inbesondere des Gehirns (Essay on the Nervous System, and particularly on the Brain), Leipsic, 1814; Lehrbuch der Zootomic (Manual of Zootomy), with 20 plates engraved by himself, Leipsic, 1820; Erläuterunge Tafeln zur vergleichenden Anatomie (Explanatory Tables for Comparative Anatomy), 3 vols., Leipsic, 1826-'31; Ueber den Blutkreislauf der Insecten (On the Circulation of the Blood in Insects). Leipsic, 1827; Grundzüge der ver-gleichenden Anatomie und Physiologie (Principles of Comparative Anatomy and Physiology), 3 vols.,
Psychologie (1 researe
sic, 1831; Briefe
(Letters on Landscape
Symbolik der menschlienen u
of the Human Form), 1853.

CARUS, MARCUS AURRILIUM, a Roman experor, born about A. D. 223, died 283. Enfather was an African, and his mother a solle Roman lady. He was proclaimed emperor by the legions, on the assassination of Proba, 223. He caused justice to be executed upon the assassins. He gained a signal victory over the Sarmatians, and prosecuted the war against the Persians. Undertaking the campaign is milwinter, and making a rapid march through Thrace and Asia Minor, he ravaged Mesopeomia, made himself master of Seleucia, and carried his arms beyond the Tigris, where he did suddenly in his camp.

CARVAJAL, Tohas José Gonza

ish statesman and author, born in 21, 1753, died Nov. 9, 1834. He was ed in 1795 governor of the new c Sierra Morena and Andalusia; protesta the French invasion of Spain in 1 1809 to 1811 served as commis ish army against Bonaparte: ... minister of finance; relia to assume the directo sity of Isidro, where he us ficulties by establishing a www stitutional law. He was in prison from 1815 to 1 reinstated him at San ro. lution brought his opp nts i he was exiled from 1 to at the time of his death us wasupreme council of war, of the ment of the Spanish and It grandce of Spain. He l d H age of 57 in order to . This translation has reputation for poetical power, which m also in several original productions.

CARVALIIO, José da Silva, a Porti statesman, born in Beira in 1782, died Feb 4 1845. He was a member of the re appointed minister of justice until 1823, w on the downfall of the constitutional ge ment, of which he was a foremost c he was obliged to resort to flight to En where he remained until 1826, when he turned to Lisbon, but Don Miguel's again compelled him to leave. Eventu was named a member of the council of dianship instituted by Don Pedro for the y queen Donna Maria, and succeeded in a tiating the first English loan for Pert Having accompanied Don Pedro to the As he filled, on his return to Portugal, imp offices, and became finance mini In 1835 he retired with the Palmella ad tration, and was presently obliged to re to England, where he remained until M when a general amnesty was procla

CARVALHO Y MELLO. See POMBAL. OARVALLO, MANUEL, a Chilian statesman, at Santiago in June, 1808. He received a or education; devoted himself from his youth to literary pursuits, and at the ume to the study and the practice of the w. In 1830 he became chief clerk of the cones of plenipotentiaries in his native town. also appointed chief clerk of the state ment, and elected a member of the Chili of representatives. Afterward he was on a diplomatic mission to Washington, for some time he held the position of l'affaires of Chili near the U.S. govern-In 1835, on his return home, he devoted eminence, and many of the more complis in which he was engaged as counbodied by him in a permanent pubtakou. Lie is a member of the committee for reform of the Chilian codes, of the faculty was and political sciences of the university Santiago, but he chiefly excels as an intermonal lawyer. In 1846 he resided again for a time as minister at Washington.
ARVER, John, first governor of Plymouth dony, born in England, date unknown, died . 1621. He had quitted his country e of religion, and had established f ne Leyden, whence he was sent to effect ty with the Virginia company concerning nory in N. America. He obtained a patent 1619, and proceeded to N. America in the volower with 101 colonists. After a dangeravflower with 101 colonists. royage they arrived at Plymouth, where er was unanimously elected governor. He ged the affairs of the infant colony with ice, and exhibited great address in his ourse with the Indians, but died within

DONATHAN, an American travelborn at Stillwater, Conn., in 1782, died in don in 1780. He abandoned the study of licine for a military life, and was in all the s by which the Canadas came into the posion of Great Britain. At the peace he uncook to explore the interior of N. America, to open new channels of commerce. He

us after landing.

d the continent to the Pacific, and resed to Boston in 1768, having travelled about 100 miles. Proceeding to England, he unsessfully solicited from the king requital of expenses, and aid in publishing his charts journals. He was even commanded to der up his papers, now ready for publication, seing the property of the government, and obliged to repurchase his papers from the kseller to whom he had sold them. Ten afterward he published an account of his reals.

IARY, Col. Archibald, a Virginia patriot statesman, born in Virginia about 1780, 1 Sept. 1786. He early became a memof the house of burgesses, where he ranked the first intellects of the epoch. In 4 he served on the committee which re-

ported the address to the king, lords, and com-mons, on the principles of taxation; and in 1770 was one of the signers of the "mercantile association," which pledged its members to use no British fabrics thereafter, the design being to resist by practical measures the encroachments of the government. In 1778 he was one of the celebrated committee of correspondence by which the colonies were united into one great league against parliament; in the following year he was a member of the convention which appointed delegates to the general congrees; and he served with great distinction in the convention of 1776. As chairman of the committee of the whole, he reported the resolutions instructing the Virginia delegates in congress to propose independence, and from his lips fell the declaration of Jefferson, the bill of rights of Mason, and the first constitution of Virginia. When the state govern-ment was organized under this constitution, he was returned to the senate, where he presided with great dignity and efficiency. this time occurred the incident with which his name is most generally connected. The scheme of a dictatorship had been broached, and without his knowledge or consent, Patrick Henry was spoken of for the post. In the midst of the general agitation Col. Cary met Mr. Henry's half-brother in the lobby of the assembly, and said to him: "Sir, I am told that your brother wishes to be dictator. Tell him from me, that the day of his appointment shall be the day of his death, for he shall find my dagger in his heart before the sunset of that day." The project was speedily abandoned. Col. Cary soon afterward retired to his estate of Ampthill, in Chesterfield, where he died, greatly respected and beloved. His family was of noble extraction, descended from Henry Lord Hunsdon; and, at the time of his death, Col. Cary was himself the heir apparent of the barony. In person he was short of stature, but possessed great personal beauty. His features were small and delicately chiselled; his eye remarkable for a very peculiar brightness, as his portrait shows. He was a good representative of the former race of Virginia planters, delighting in agricultural pursuits, in blooded horses, and improved breeds of cattle, which he imported from England, and attended to with great care. In character he was a man of singular courage; his serene intrepidity shrunk from no peril, and counted no cost where his honor or rights were concerned. From this trait of his character he was called by his contemporaries "Old Iron," a name which still clings to him in Virginis, where his memory is held in high respect.

CARY, HENRY FRANCIS, an English writer, born in 1772, died in Sept. 1844. He early distinguished himself by an original ode on the misfortunes of Poland, and having entered Oxford devoted himself with ardor to the study of the modern European languages. His translation into blank verse of the Divina Commedia of Dante has gained him celebrity among all

readers of the English tongue. This great work did not, however, attract much attention until Coleridge brought it into notice by his commendations. Cary also translated the "Birds" of Aristophanes, and some odes of Pindar. His continuation of Johnson's "Lives of the English Poets," and his "Lives of the Early French Poets," are meritorious productions; the latter were published anonymously in the "London Magazine." From 1826 he was assistant librarian of the British museum for six years. He published carefully revised editions of Pope, Cowper, Milton, Thomson, and Young.

CARY, Rev. Lott, born a slave, near Richmond, Va., in 1780, died at Monrovia, Nov. 8, In his youth he became vicious and profane, but in his 27th year he was converted and joined the Baptist church. With the With the change in his character came the thirst for knowledge. Possessed of a high order of native talent, he soon learned to read and write, and after a time he began to preach to his countrymen with great acceptance. He succeeded in raising by extra work \$850, with which he redeemed himself and his 2 children from slavery. He was then employed in a tobacco warehouse at a salary of \$800, and subsequently of \$1,000 per annum. In 1815 he became much interested in Africa and in the establishment of missions there. When the journal of Messrs. Mills and Burgess, who had been sent out to explore the country and secure a site for a colony, was published, Mr. Cary read it with great interest, and in company with a friend, Colin Teage, determined to emigrate to Africa. He sailed accordingly in Feb. 1821, and was instrumental in the removal of the colonists from their first unhealthy position to Cape Mesurado, now Monrovia. Faithful, energetic, and intelligent, he was now the leader in the erection of cabins for the settlers, then felling trees, prescribing for the sick, preaching to his countrymen, or fighting bravely against the savages who had determined to exterminate them. Once, when the colonists had become dissatisfied with the course of the colonization society in regard to the tenure of their lands, Mr. Cary took sides with them against the agent, Mr. Ashmun, although personally his friend. It was a time of gloom, of doubt, of trial; but the calm, firm spirit of Ashmun rose above the gloom. Although aware that the colonists had some reason for complaint, he felt that their only safety lay in obedience to the company's orders until they could be modified, and that this could only be effected by appeals to their reason and judgment. He accordingly stated to them clearly and plainly the result of their continued refusal to obey the directions of the company, and demanded an immediate pledge of obedience from those who were willing to act with him. It is in the highest degree creditable to Mr. Cary, that seeing the evils which would follow insubordination, he came forward, and fraukly proffered

his hand to Mr. Ashmun, saying as he did so, "I give the pledge, sir; I acknowledge my error, and cheerfully submit to the laws of the seciety. Henceforth, I stand by her side, so help me God!" Some 8 or 4 years later, when Mr. Ashmun found himself worn out by sant toil in that deadly climate, he the U. S., in Sept. 1826, leaving the country trol of the colony in the hands of Mr. Carr. The explosion of a cask of powder in a bailing, where he was making preparations to repd an assault made by the natives, killed him.

CARYATIDES, in architecture, uses which support a roof in lieu of cupilasters. The story is that the inhalicarys, an Arcadian village, joined the action the battle of Thermopyles; after feat of the Persians the confederate Grestroyed Caryse, put the male in death, and enslaved the women.

and heavy superincumbent we CASA SANTA, the "holy he to, in which the Blessed Virgin dwelt at Nazareth. Accordi tradition, angels bore it away fro Naz 1291, and placed it near To 2. 10 whence, 8 years afterward, it v the coast of Italy, near Recanau. Later it was removed 1,000 paces near It changed its position again to t noble lady named Lauretta, and a the spot where the town of Lore been built. The house is 82 feet # broad, and 18 feet high, with a he roof. It has no foundations, is ! similar in color and texture to in Palestine, and is surrounded by a v interior is adorned with paintings in to tine style, now nearly effaced, and this stance is supposed to confirm the acc by historians that St. Helena ado its removal from Palestine. In ... merly of mosaic gold work enriched cious stones, but now of silver gilt and work, is the ancient statue of the Vi of the cedar of Lebanon, and removretto simultaneously with the house. carried to Paris in Feb. 1797, restored by Kapoleon I. to Pius VII., and by that possis eriched with precious stones, and carried back to Loretto, Dec. 8, 1802. Several spostation constitutions set forth that the house of Lor is that in which the Saviour became incorr It has ever been a favorite object of deve

for Catholic pilgrims.

CASABIANCA, Louis, a French naval officer and politician, born about 1755 at Bastis, died Aug. 1, 1798. He entered the naval service when very young, and distinguished himself by his prowess. Having adopted the principles of the French revolution, he was elected to the metional convention; on the trial of King Louis XVI. he did not vote for death, but merely far imprisonment. He subsequently became a

of the council of 500; after which he inted captain of L'Orient, the flag-ship al Brueys, the commander of the fleet ok Bonaparte and his army to Egypt. leet was attacked by the English in ou Aboukir, Casabianca fought most the left and was killed with his son

on Aboukir, Casabianca fought most to the last, and was killed with his son, ears old, by the explosion of his ship.

To CAZAL, MANUEL AYRES DE, a

geographer, born in the last half of century, died at Lisbon in the middle sent century. Having received an exucation, he took holy orders, but after-roted himself to the exploration of He has been styled the father of Bragraphy, and his principal work, enografia Brasilica (1817, 2 vols.) elicalmiration of Humboldt and of other t judges.

L MAGGIORE, a town of Lombardy, Cremona, on the left bank of the Po. 77. A naval victory was achieved forza over the Venetians in 1448. Tanid the manufacture of glass, pottery, m of tartar, are carried on in the

L PUSTERLENGO, a town of Lomvernment of Milan, on the Brembiolo. seat of several public offices, has a nd sanctuary, manufactures of silk, I earthenware, and an extensive trade san cheese. Pop. 5,601.

LE, the capital of a province of the in the kingdom of Sardinia, situated t bank of the Po, 35 m. from Milan,

t bank of the Po, 35 m. from Muan, . from Turin, near the site of the an lula. The citadel, founded by Duke n 1590, was one of the strongest in recently its ramparts have been conto promenades, and its defences are gnificant. Casale was the capital of nt marquisate of Montferrat, and has several sieges, and frequently changed rs. It is the seat of a bishop and of court of justice, and has a cathedral said to have been founded in the 8th Its church of San Domenico, contain-

Its church of San Domenico, containable in memory of the princes Palæologi, table for the elegance of its design, al fine works of art are found in other rches. Among the prominent articles are silk and sirup manufactured from of a species of reed. Pop. 21,000.

of a species of reed. Pop. 21,000. NOVA, GIOVANNI GIACOMO DE SEINaccomplished Don Juan of the 18th who travelled from land to land, capthe hearts of women and fascinating of men, born in Venice, April 2, 1725, ienna in June, 1803. We hear first asanova family at the beginning of century, when Giacomo Casanova, rd of the Aragon house of Palaa secretary of the king of Aragon, a sensation at Rome by eloping with His son Giovanni was expelled from 1481, on account of a duel, and joined vol. IV.—33

the expedition of Columbus. Marco Antonio, Giovanni's son, a poet, was expelled from Rome by Giulio de' Medici, against whom he had pub-lished a satire. His grandson, Cajetano Giu-seppe Giacomo, led an adventurous life, which he crowned by turning comedian, and by marrying Zanitta Farusi, the beautiful daughter of a Venetian shoemaker. Cajetano and Zanitta were the parents of the subject of this notice, who, when only 10 years old, vindicated his birth by making love to Bettina, the pretty sister of the abbé Gozzi, under whose instruction he was placed at Padua. Implicated in a brawl between the policemen and the students of Padua, he was compelled to leave that city, and betook himself to Venice. His adventures there are described in his memoirs, and reveal the frivolous character of the Venetian society of those days. Having become notorious for his profligacy, he was finally thrown into the dungeon of Santo Andrea, but effected his escape, and, after wandering over various towns cape, and, after wandering over various towns of Italy and Calabria, succeeded in finding at Morterano a prelate to whom he brought letters of introduction, which his mother had obtained for him, and who recommended him to his friends at Naples. They, in turn, supplied him with letters to Cardinal Acquaviva in Rome, who brought him into personal contact with Pope Benedict XIV., and this circle of acquaintance laid the foundation for his subsequent career. His devotion to the poetical Marchesa Gabrielli, his mental encounters with the literati (for Casanova was a person of culture and varied learning), his conversational triumphs in the high social circles of Rome, were all brought to a sudden close by his connivance in an elopement which gave offence to the marchesa, who requested Cardinal Acquaviva to dismiss Casanova, whom he employed as secretary. Although there was no resisting an order from such a quarter, the cardinal gave him a passport for Venice, and eventually he reached Constantinople, in company with the Venetian ambassador, into whose favor he had insinuated himself with his wonted grace. He was received with great distinction by Cardinal Acquaviva's friend, the pasha of Caramania, alias Count de Bonneval, who introduced him to Yussuf Ali, whose wife fell in love with him, while his daughter Zelmi was offered to him in marriage. He left Constantinople surfeited with presents and money, which he lost in gambling soon after his arrival at Venice in 1745, where he accepted a humble musical employment in the orchestra of the theatre San Samuele, in order to save himself from starvation. Here he fell in with the rich Venetian senator Bragadio, but was soon again compelled to remove to other places in order to escape the hands of justice. After figuring as a magician at Cesena, as a priest at Milan, and in various characters at Mantua, Ferrara, Bologna, Parma, and Venice, he made, on June 1, 1750, his first appearance in Paris. There his reputation had preceded him, and he was received with

great favor. All the beaux caprits and dissolute dames of the profligate capital lavished their attentions upon the hero of the thousand and one scandalous tales. The marshal de Richelieu became his bosom friend; the duchess of Chartres doted upon him. After 2 years in Paris, he joined his mother, who was then performing at the theatre of Dresden, and subsequently proceeded to Vienna, where he was received with the same celat. On his return to his native city, however, July 25, 1755, he was lodged in the terrible dungeons of the council of ten. He gives in his memoirs a most entertaining but highly improbable account of the miraculous skill and audacity which he displayed in again effecting his escape. In Jan. 1757, he reappeared in Paris, where the dungeon episode added considerably to his notoriety. He now tried his hand at politics and financiering, and proposed a lottery, in order to restore the equilibrium of the French exchequer. A meeting was convened to deliberate on the subject. D'Alembert in his capacity of mathematician was invited to attend it. Casanova's persuasive power convinced the most sceptical minds of the infallibility of his project; it was actually adopted, but he did not remain to observe its development, being sent as a kind of government spy to Dunkirk. On his return to Paris, he met at the marchioness of Urfé's the famous adventurer, the Count de St. Germain, whom he subsequently found installed at the Hague. After failing in his various industrial speculations at Paris, Casanova went to Holland under the auspices of the duke of Choiseul, to contract a loan for the French government; while strange to say, St. Germain had received the same mission from the hands of Louis XV. himself. The two adventurers were well matched, but as they found the Dutch unwilling to advance any money, Casanova resumed his travels. At Roche he paid his respects to Haller, and at Ferney to Voltaire. At London he met the chevalier d'Eon, and was introduced to George III., but, implicated in a charge of forgery, left the English capital in a singularly hurried manner. At Brunswick the prince of Prussia helped him out of a pecuniary difficulty. His rencontres with St. Germain continued to be frequent and amusing. At Sans Souci he had an audience of Frederic the Great; at St. Petersburg of Catharine II. Prince Adam Czartorysky introduced him to the king of Poland. He returned to Vienna, but Maria Theresa would not receive him, and he departed for Spain. There his career forms one series of scandals and intrigues. In Barcelona he was put in prison, where he beguiled his time by writing a refutation of La Houssaye's "History of Venice." After recovering his liberty, he betook himself in 1768 to Aix, where he met Cagliostro. This meeting of the two great adventurers of the 18th century was full of interest. But Casanova's roving

career was now drawing to its close. At a din-

ner of the test met Count and to see precarious publibrarian in the second where he spend to remaining 14 life. Casanova wrote a work on Petranslated the Iliad, and was the account of his imprisonment, and valuatings. But his literary fame Mémoires, which he wrote in Frei residence in Bohemis.

CASAS, BARTOLONE DE LAS, called to the American Indians, born Spain, in 1474, died in Madrid father accompanied Culumbus boun and 2d voyages, and on the latter of with him his son, then 19 years of that time had pursued his stu success at Salamanca. Barton the 8d and 4th voyages of Col. return to Spain he determine w ecclesiastic, and entered the order cans, with a view of being emp sionary to the Indians. His or ferred till his arrival in 1510 where he celebrated the fi ever been heard from a p new world. Soon after, he was curacy in the island of Cuba, attention of Governor Velasques by ence which his mildness and ch over the native population. he zeal into the interests of the unfor oppressed by their European come 1516 returned to Spain to obtain & Cardinal Ximen ures of redress. gent, sent out 8 Hieronymite the abuses complained of, but we commission not satisfying the devicesas, he soon returned again to stricter and more efficient re to save the Indians from the o nation which threatened tl continued, Las Casas, who have s thriving and robust beneath the sum or ola, proposed the introduction of n to labor in mines and on sugar p relieve the natives. The plan which had suggested was quickly ca onists, the traffic in negroes L. commerce, and the servitude of only exchanged for that of a the failure and perversion of l formed the bold project of e under his own guidance, and Charles V. the gift of 250 lethis purpose. This plan too trial, in despair he retired Dominican convent at St. De quently he went as mission through the provinces of mala, and into Peru he returned to Europe we or the situation of the India him new reforms. Charles . . . 1

for his many labors, appointed him to ishopric of Cuzco. Las Casas preferred 1 poor, and having declined this apaccepted the next year the bishopric pa, in Mexico, in a province destitute of pearls, or commerce; and at the age of he left Spain for the 8th time. His whalf of the Indians provoked a hostile rom Sepulveda, an officer of the Spanish vho undertook to justify the conduct of To defend himself Las Casas miards. ais work upon the destruction of the which contained many particulars of s by the colonists, and was translated eral European languages. He met with ies in the administration of his bishopric, ing refused the sacraments to those of nists who reduced the Indians to slavery, upon himself not only the hostility of nters but also the disapproval of the

Abandoned by all, he returned finally in 1551, after having during 50 years ad in America his zeal and his virtues, red to a cloister, and devoted the reformist in the to various compositions, one most valuable of which, his "General of the Indies," has never been pub-

18 GRANDES (Span. great houses), a about 4,000 inhabitants in Chihuahua, on the Casas Grandes or San Miguel river, , of Llanos, and remarkable for a numuins, apparently relics of an aboriginal hese ruins are found about half a mile modern town, partly on the declivity all hill, and partly on the plain at its hey consist chiefly of the remains of a lifice, built entirely of adobe, or mud rith gravel and formed into blocks 22 hick, and about 3 feet long. No stone to have been used, and the portions nust have been constructed of wood atirely crumbled away. The outer e almost all prostrate, except at the and were probably only 1 story high; er walls are much better preserved, in height from 5 to 50 feet, and being cases 5 feet thick at the base. parts of these, like the exterior walls, nerally fallen, leaving the corners towove the rest. The portions remaining em to indicate an original height of to 6 stories, but they are so much away that it is impossible to discover he beams were inserted. The doorhe beams were inserted. ave the tapering form noticed in the structures of Central America and Yund over them are circular openings in ition walls. The stairways were probwood, and placed on the outside. in his "History of Mexico," tells us building, according to popular tradi-is erected by the Mexicans in their ation, and that it consisted "of 8 rith a terrace above them, and without nee to the lower floor. The door for

entrance to the building is on the second floor, so that a scaling ladder is necessary." difficult to form a correct idea of the arrangement of the edifice, but its main features seem to have been 8 large structures connected by ranges of corridors or low apartments, and enclosing several court-yards of various dimensions. The extent from N. to S. must have been 800 feet, and from E. to W. about 250 feet. A range of narrow rooms, lighted by circular openings near the top, and having pens or enclosures 8 or 4 feet high in one corner. supposed to be granaries, extends along one of the main walls. Many of the apartments are very large, and some of the enclosures are too vast ever to have been covered by a roof. About 200 feet W. of the main building are 3 mounds of loose stoned, which may have been burial places, and 200 feet W. of these are the remains of a building, 1 story high and 150 feet square consisting of a number of apartments ranged around a square court. For some distance S. the plain is covered with traces of old buildings, the nature of which cannot now be determined, and for 20 leagues along the Cas Grandes and Llanos rivers are found artificial mounds from which have been dug up stone axes, corn-grinders, and various articles of pottery, such as pipes, jars, pitchers, &c., of a texture far superior to that made by the Mexicans of the present day, and generally ornamented with angular figures of blue, red, brown, and black, on a red or white ground. The best specimens command a high price in Chihushua and neighboring towns.—On the summit of a mountain, about 10 miles from the ruins above described, are the remains of an ancient stone fortress, attributed to the same people who built the Casas Grandes, and probably intended as a lookout.—On the Salinas and Gila rivers, in the country of the rimo and coop inches copa Indiana, New Mexico, are ruins of like character and evidently identical origin, to Indians call all such ruins "Casas de Monte-zuma." Of those on the Salinas little remains and the traces of several irrigating canala. the Gila, however, there are 8 distinct buildings, all enclosed within a space of 150 yards. The largest measures 50 by 40 feet, and at a distance looks not unlike a square castle, with a tower rising from the centre. The southern wall is badly rent and crumbled, but the other 3 are nearly perfect, are roughly plastered over on the outside, and hard-finished inside with a composition of adobe. The material of which they are constructed is the same as that used in the Casas Grandes of Chihushus. walls are perpendicular within, but their exterior face tapers in a curve toward the top. One of them is covered with rude figures. The ends of the beams, which denote by their charred appearance that the building was destroyed by fire, are deeply sunk in the walls, and show 8 stories now standing. The lower

floor is divided into 5 apartments. There is an entrance on each of the 4 sides, but there are no windows except on the W. side, and no traces of an interior stairway. The other 2 buildings are much smaller, and one of them was perhaps merely a watch-tower. are badly ruined. About 200 yards distant is a circular enclosure, from 80 to 100 yards in circumference; probably intended for cattle. For miles around the plain is strewn with fragments of pottery.—The origin of these ruins is a subject of doubt. They were seen nearly in their present state by the early explorers of the country, and the Indians then assigned them an age of no less than 500 years. Mr. Squier supposes them to have been the work of the aboriginal race of the Moquis.

CASATI, GABRIO, count, president of the provisional government of Lombardy in 1848, born in Milan, Aug. 2, 1798, distinguished himself during the revolution by his patriotism and moderation. Advocating the union of Lombardy and Sardinia, he officiated from March to July 25, 1848, as one of the ministers of Charles Albert, and subsequently he presided over the Lombard consulta at Turin, until 1849, when Lombardy came again under the sway of

Austria.

CASATI, Paolo, an Italian Jesuit, born at Piacenza in 1617, died in Parma, Dec. 22, 1707, celebrated for having been the means of converting Christina of Sweden to the faith of Rome, and for his proficiency in mathematics

and theology, of which sciences he was professor. CASAUBON, ISAAC, a Calvinistic theologian and critic, born in Geneva, Feb. 8, 1559, died in London, July 1, 1614. His father was a French Protestant minister, and sent him at the age of 19 to Geneva to study Greek, where he soon so distinguished himself as a linguist, that on the chair of Greek becoming vacant in 1582, he was appointed to it, though only 23 years of age. This post he occupied for 14 years. Meanwhile he married Florence, the daughter of Henry Stephens, the celebrated printer and publisher, by whom eventually he had 20 children. Some domestic difficulty with his father-in-law, or the financial embarrassments in which he was involved by being surety for a friend, led him in 1597 to remove to the chair of Greek and belles-lettres in the university of Montpellier. Two years afterward, at the solicitation of Henry IV., he went to Paris to take a similar professorship in the university of France. But the jealousy of the Catholic party made the measure impolitic, and Henry finally appointed a Catholic to the chair, and made Casaubon royal librarian, with a salary of 400 francs per annum. At the conference of Fon-tainebleau (May 4, 1600), Henry constituted him one of the Protestant judges. The Catholic party predicted that Casaubon would finally renounce his Protestantism; but he died in the Protestant communion, though there is no doubt he was sometimes wavering in his faith. Chagrined that his Protestant reputation was thus

impaired, Casaubon determined to leave France. and therefore availing himself of the occurr of Henry's death to get leave of absence from the queen, he accompanied Sir Henry Wotcom to England. He was received with distinction, made prebendary of Canterbury, and some say also of Westminster, and received a pension of £200, which he lived 3 years to enjoy. He was buried in Westminster abbey. To the ext of his life he spoke Latin as well as he did his mother tongue, and was the most critical Grek scholar of his age. His works are mostly palological and critical, many of them being anotated editions of the classics.

CASAUBON, MERIO, an English divine, so of the preceding, born at Geneva, Aug. 14, 1599, died in Somersetshire, July 14, 1671. He accompanied his father to England; was appointed to the cure of Bleadon in 1624, and 4 years afterward was made prebendary of Caterbury, and rector of Ickham. He received the degree of D. D. at Oxford, 1636. Through his attachment to the Stuarts he lost both property and preferments during the protects rate. Cromwell, perceiving his talenta, made frequent efforts to win him over to the came of the commonwealth; among which was a solicitation to write a history of the war. Christina queen of Sweden, offered him the superintendescy of all the Swedish universities, but he per ed in living in retirement in England until the accession of Charles II., when his ecclesiastical preferments were all restored. He published in his lifetime 2 vindications of his father from the aspersions of his enemies. He believed in the existence of witches and familiar spirits, a find which he endeavored to defend in a work estitled "Credulity and Incredulity."

CASCA, Publics Servilium, one of the conspirators against the life of Julius Cmear. He was not a person, otherwise, of much note, and it is even doubtful whether his name would ever have been recorded in history, had it not been for his complicity in this deed. He had been attached to the Pompeian party, and hel like many others of the dictator's slayers, salmitted himself to Cæsar after the bettle of Pharsalia, and received a free pardon. It is stated by Plutarch, in his life of Casar, that, when Tullius Cimber, according to the preconcerned plan, gave the signal for the assassinative by dropping the fold of his toga from his shoulder, Casea struck the dictator on the back of the neck with a short sword, or dagger, but failed to inflict either a deep or deadly wound being under the influence of agitation, if not of fear, when delivering the blow. Camp. a feeling the stroke, turned round, it is said, abruptly, and caught the assassin by the arm, crying out in Latin, "What dost thou, villein Casca?" when Casca calling to his confederates in Greek, "Help, brothers!" the attention realists to his confederate are realised to his confederate. ers rallied to his assistance, and completed the bloody deed. Of so small celebrity is this person, but for his share in this conspiracy, that history has not recorded the fate which beful him.

DE RANGE, a chain of mountains part of Oregon, forming a continua-Sierra Nevada of California. It lies m. from the Pacific, and runs in gen-N and S. Its highest summits vary in from 10,000 to 17,900 feet. The lie altitude of Mt. St. Elias, in Russian generally supposed to be the highest North America. The name of this lerived from the cascades of the Colich are formed where that river ough the Cascade range.

RILLA (Span. cascara, bark), is obm that species of croton called croton, a small tree or shrub which grows he West Indies and Bahama islands. spicy, bitter taste, and is used as a hen burnt, it emits an odor so agreesmokers have sometimes mixed a ntity of it with their tobacco, but it is ious when thus employed.

BAY, on the coast of Maine, lying he 2 headlands, 20 m. apart, of Cape and Cape Small Point. It contains islands, which have become a favorite ing the summer season.

in grammar, is the inflection or change tion which a noun receives, in order various relations to other words in a

The name is derived from the Latin ll, thus indicating a falling off from al state of the word. This inflection vas common to the ancient languages, modern languages have renounced it. ions which the Greeks and Romans by changes of termination are exnong the moderns by prepositions, or le change in the order of words. sh language, and those of the conti-ed from the Latin, only the pronouns jed in form according to the relations ey express. Those languages which cases do not all have the same num-Latins had 6, the Greeks 5, and the and prepositions were resorted to to elations which had no case appropri-

ACTION ON THE, Or TRESPASS ON THE, form of personal action, first used in of Edward III., as a remedy for inwhich the forms then in vogue were ed, and receiving its name from the he whole case of the plaintiff was set he original writ. It is so comprehenscope as to lie wherever damages are o person or property, for which no m of action affords a remedy. This, y be called a natural species of action, listinction from those which are of a mical character, is retained wherever ice is simplified, and forms the basis es governing the single form of action y the codes of New York and several es.

HARDENING, a process of hardenurface of small iron articles, by con-

verting this portion of them into steel. For this purpose they are placed in an iron case together with animal or vegetable charcoal, and subjected to the process of cementation. The carbon absorbed does not, in the short time allowed for the operation, penetrate beneath the surface. From 2 to 8 hours is the usual time that the articles are exposed to a dull red heat; they are then taken out of the burnt bone-dust, or other carbonaceous substance, and further hardened by quenching them in oil or cold water. Sometimes they are left to cool in the case, and are afterward tempered. Prussiate of potash has in various ways been found a very useful material for affording its carbon to iron for producing steel. Being a combination of two atoms of carbon and one of nitrogen with one of potash, it offers no solid residue that interferes with the progress of the chemical change, or impairs the quality of the steel. In case-hard-ening, it is sprinkled or rubbed upon the iron heated to dull red, and this, after being put in the fire for a few minutes, is taken out and tempered in water. The process is a convenient one where small articles are to be exposed to much wear, these being easily made of soft iron, and then externally hardened. It is also conveniently applied to give a good surface to small articles which are desired to receive

the high polish of which steel is susceptible. CASE SHOT, or CANISTER SHOT, consists of a number of wrought-iron balls, packed in a tin canister of a cylindrical shape. The balls for field service are regularly deposited in layers, but for most kinds of siege and naval ordnance they are merely thrown into the case until it is filled, when the lid is soldered on. Between the bottom of the canister and the charge a wooden bottom is inserted. The weights of the balls vary with the different kinds of ordnance, and the regulations of each service. The English have, for their heavy naval guns, balls from 8 oz. to 3 lbs.; for their 9-pound field-gun, 11 oz. and 5 oz. balls, of which respectively 126 and 41 make up a canister for one discharge. The Prussians use 41 balls, each weighing $\frac{1}{3}$ of the weight of the corresponding round shot. The French had up to 1854 nearly the same system; how they may have altered it since the introduction of the new howitzer gun, we are unable to tell. For siege and garrison artillery, the balls are sometimes arranged round a spindle projecting from the wooden bottom, either in a bag in the shape of a grape (whence the name grape shot), or in regular layers with round wooden or iron plates between each layer, the whole covered over with a canvas bag.—The most recently introduced kind is the spherical case shot, commonly called from their inventor, the British general Shrapnell, shrap-nell shells. They consist of a thin cast-iron shell (from to inch thickness of iron), with a diaphragm or partition in the middle. The lower phragm or partition in the middle. The lower compartment is destined to receive a bursting charge, the upper one contains leaden muske balls. A fuse is inserted containing a carefully

prepared composition, the accuracy of whose burning off can be depended upon. A composition is run between the balls, so as to prevent them from shaking. When used in the field, the fuse is cut off to the length required for the distance of the enemy, and inserted into the shell. At from 50 to 70 yards from the enemy the fuse is burnt to the bottom, and explodes the shell, scattering the bullets toward the enemy precisely as if common case shot had been fired on the spot where the shell exploded. The precision of the fuses at present attained in several services is very great, and thus this new projectile enables the gunner to obtain the exact effect of grape at ranges where formerly round shot only could be used. The com-mon case is most destructive up to 200 yards, but may be used up to 500 yards; its effect against advancing lines of infantry or cavalry at close quarters is terrible; against skirmishers it is of little use; against columns round shot is oftener applicable. The spherical case, on the other hand, is most effective at from 600 to 1,400 yards, and with a proper elevation and a long fuse, may be launched at still greater ranges with probability of effect. From its explosion near the enemy, by which the hailstorm of bullets is kept close together, it may successfully be used against troops in almost any but the skirmishing formation. After the introduction of the spherical case shot, it was adopted in almost all European services as soon as a proper fuse composition was invented by each, this forming the only difficulty; and of the great European powers, France is the only one which has not yet succeeded in this particular. Further experiments, accidents, or bribes will, however, no doubt soon place this power in possession of the secret.

CASEMATES (Sp. casa, a house, and matar, to destroy), in fortification, vaulted chambers under the main wall of a bastion with embrasures for guns. Though generally considered by writers as only protected batteries, they have in the United States been used as subterranean barracks even in time of peace. They must be bomb-proof, and distributed along the faces and flanks of the bastion to serve as chambers to the garrison in case of bombardment, but a regard for the health of troops has prevented all armies except the American from using them as barracks, except when compelled by the exigencies of war.

CASERTA, a town of Naples, capital of the province of Terra di Lavoro, situated in a fertile plain on the railway line from Naples to Capua, 17 m. N. E. of the former, and 6 m. S. E. of the latter city; pop. about 25,000. It has numerous churches, a convent, a military school and excellent barracks, and is noted for its magnificent royal palace and aqueduct, both constructed by Vanvitelli for Charles III. The palace contains a chapel, and a large theatre, adorned with columns from an ancient temple of Serapis. The gardens are supplied with water from a distance of 27 miles by means of a fine aqueduct.

The principal branch of industry consists in the manufacture of silks.—On the hills behind Conserts is CASERTA VECCHIA, a for the seat of a bishop and of a seat of a bishop and of a seat of a bishop and of a seat of a bishop and of the conserts once a place of great importance, but has beclipsed since the foundation of Caserta. But towns were founded by the Lombards.

CASES, COUNT DE LAS. See LAS CASES, CASEY, a central co. of Ky., area 350 st. m.; pop. in 1850, 6,556, of whom 634 were slave. It is traversed by Green river and the Bolling fort of Salt river. The surface is hilly and brokes. The productions in 1850 were 511,416 beh. d corn, 9,041 of wheat, 31,797 of cats, 74,600 ha of tobacco, 24,429 of wool, and 27,197 of fix. There were 14 churches, and 1,156 papils stending public schools. The county was organized in 1806, and named in honor of Col. Wa. Casey, one of the first settlers of Ky. Capital, Liberty.

CASHAN, or Kashan, an ancient and forcishing city of Persia, in the province of Irak-

ishing city of Persia, in the province of Irak-Ajeme, situated in a rocky plain, about 90 a. N. of Ispahan on the route to Teheran; id. 84° N., long. 51° 20' E.; pop. about 80,000. Is

84° N., long. 51° 20' E.; pop. about 30,000. It contains a royal palace, 30 mosques, 13 beths and numerous bazaars. Beautiful silks, shawk cotton cloths, and carpets are manufactured here; copper utensils are also made here and the workers in gold and silver are noted for their skill. It has considerable trade in from

their skill. It has considerable trade in fruit. CASHEL (anc. Carriol, the "habitation in the rock"), a city and parliamentary borough of Ireland, co. Tipperary, with a station on the Great Southern and Western railway, 75 m. S. W. of Dublin: pop. in 1851, 4,798. Part of it is well built, but it has a poverty-stricken pearance, is destitute of manufactures, and he been on the decline for several years. tains an elegant cathedral and parish church a nunnery, chapels, schools, barracks, a hospital an infirmary, and court-houses. Its most interesting object is the famous "rock of Cashe," which rises abruptly from the plain outside of the city, and is crowned with the finest collection of ruins in Ireland. These consist of a round tower, a Gothic cathedral built about the 12th century, a monastery and a castle of about the same date, and a chapel of hewn stone, with a roof of the same material, built in the Same and Norman styles of architecture, and still showing marks of extraordinary beauty. remains, which are visible at a great distance. are all within an enclosed area. At the foot of the rock are the ruins of Hore abbey and of a Dominican priory. Donald O'Brien, king of Limerick, and his nobles took the oath of allgiance to Henry II. here in 1173. Cashel was the ancient residence of the sovereigns of Musster, and is often dignified by the title of "the city of kings." In the civil wars following the rebellion of 1641, it was taken by Lard

Inchiquin, and afterward by Cromwell.
CASHMERE, CACHEMERE, KASHME, KASHME, KASCHEMIE, Or KACHMIE, a kingdom in the

art of Hindostan, almost enclosed by of the Himalayas, which separate it ibet on the N. and E. from the Brit-ricts of Spiti and Lahoul and the on the S., and from the Punjaub and country on the W.; area estimated sq. m.; pop. at 750,000. It extends . 32° 17′ to 36° N., and from long to 79° 40′ E., and includes the fathe of Cashmere, the provinces of bulti or Iskardoh, Ladakh, Chamba, e others.—The valley of Cashmere is dar oval form, shut in by lofty mounsummits of some of which are covh perpetual snow. It is from 5,500 to t above the sea, and the alluvial plain rms its bottom is 70 m. long, 40 m. d about 2,000 sq. m. in superficial exhe area of the whole valley is 4,500 It is entered by several passes, 11 of e practicable for horses. The highest that of the Pir Panjal, has an elevation The principal river is the O feet. which receives numerous tributaries mountains, and flows through the a pass into the Punjaub. Several small scattered through the valley. Thus tly irrigated, and fertilized by the rains nlike those of most parts of India, are soil attains an extraordinary fertility, returns of from 30 to 60 fold of the crops. Rice, the common food of the its, is the staple; wheat, barley, buck-naize, and tobacco, are cultivated to ent; cotton is found to flourish; escuetables, kitchen herbs, and saffron are t; and the lakes supply the poorer ith a nutritious though insipid article n the singhara or water nut, the seed rapa bispinosa, which is ground into asted, boiled, or eaten raw. About one of this nut are annually taken from lur lake. Among the fruits are the ear, plum, apricot, cherry, and grape.
of rare beauty, particularly the rose,
highly cultivated, load the air with
fume. Many of the forest trees attain e, and towering among them are the in cedar, the chunar, the poplar, the the wild chestnut. The willow, maple, ler, pine, and white thorn are common. lage has its grove of chunars and popnted centuries ago by order of the neerors, and now forming one of the naments of the valley. The most valnerals are iron and limestone, both of abundant; copper, plumbago, and so known to exist. The climate is also known to exist. The climate is s, and milder than in many parts of it the stillness of the midsummer air heat an oppressiveness scarcely to be from the range of the thermometer 5° at noon in the shade, and the win-metimes severely cold. Snow falls ly. The bulk of the inhabitants are edans, speaking a Sanscrit dialect, with

a large admixture of Persian, in which latter tongue the records and correspondence of the government are written. There are 2 prominent sects, the Soonnites, and the followers of Ali; the former being the more numerous and regarded as orthodox. The Cashmerians are preëminent among Indian nations by their physical perfec-tions. The men are tall, robust, well formed, and industrious; the women famous for their beauty and fine complexions. They are a gay people, fond of pleasure, literature, and poetry, but are represented by many travellers as peerless in cunning and avarice, and notoriously addicted to lying. They appear to be of Hindoo origin. At the beginning of the present century the population of the valley was 800,000, which has been reduced by pestilence, famine, and earthquakes to 200,000. In 1828'an earthquake destroyed 1,200 persons; 2 months later the cholera carried off 100,000 in 40 days; and in 1838 famine and pestilence committed still more frightful ravages. The chief towns are Serinagur or Cashmere, the capital, Islamabad, Shupeyon, Pampur, and Sopur. The principal manufactures are the celebrated Cashmere shawls, gun and pistol barrels, paper, lacquered ware, and attar of roses.—The country was conquered by the Mogul emperor Akbar in 1586, by the Afghans in 1752, and by the Sikhs in 1819. It was included in the territory transferred by the latter to the British under the treaty of Lahore in 1846, and was immediately sold by its new owners to its present holder,

Gholab Sing, for the sum of £750,000.

CASHMERE, by the French manufacturers called Cachemire, a textile fabric made of the fine wool of the Thibet goat. This animal is characterized by long, silky, straight, white hair, large ears, horns not spirally twisted, and limbs slender and cleanly formed. The wool had long been used by the natives of Cashmere in producing the elegant shawls with which the name of their kingdom was associated, before these became known in western Europe. was not, indeed, until the campaign of the French in Egypt, when the general-in-chief of the army sent one to Paris, that the French public had an opportunity of admiring the wonderful delicacy of the fabric, the softness of the material, the harmony of colors, novelty of the work, and strangeness of the design. Its arrival is said to have created an immense sensation, and measures were immediately set on foot to introduce the manufacture into France. In Cashmere the wool is received from Thibet and Tartary, and, after being bleached, is apun and dyed of various colors. The weavers, employed by the merchants at the rate of from 1 to 4 pice (nearly 8 to 12 ets.) a day, receive the yarns, and in their shops, or at looms in their own houses, proceed to weave them after the patterns ordered. Each loom is estimated to make an average yearly production of 5 shawls; but a single one of the finest shawls sometimes occupies the work of a whole shop, keeping 2 to 4 persons constantly engaged about it for an

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The total number of looms in entire year. Cashmere, it is believed, is about 16,000. The shawls they produce are the great article of export of the country. They are sent to various parts of Asia, and in India they were first made known to the English. The process of weaving the shawls with variegated figures is conducted without the shuttle, each colored yarn of the woof being worked upon the warp with its separate wooden needle; and, as the work goes on exceedingly slowly, it is customary to divide it among several looms, and then join the pieces together. This is so skilfully done that the seams are not detected. As the pattern is worked, the right side is the under one upon the frame, and is not seen by those who work it upon the upper or rough side. The shawls are made single and in pairs, either square or long. The former measure from 63 to 72 inches on a side, the latter 126 inches by 54. To work a single long shawl without a seam, and of the finest thread in the warp as well as the woof, in the most elaborate pattern and exquisite colors, would require the labor of about 3 years; and as in this time the colors are likely to change, and the fabric to receive injury from worms or otherwise, such shawls are rarely attempted. The fine shawls are more usually made upon 12 different looms for a pair, and when completed, at the expiration of 6 or 7 months, are worth in Cashmere from 1,200 to 2,000 rupees, or from about \$500 to \$800. The most expensive shawls sold in London or Paris are stated to have brought about \$2,000.—In the year 1819, M. Jaubert, under the auspices of the French government and at the expense of M. Ternaux, succeeded in bringing some of the goats to France. These were a cross between the original Thibet and a Tartar variety, and were of a comparatively hardy constitution. They were placed by M. Ternaux at his villa of Saint Ouen, near Paris, where they gradually increased in numbers, so that 4 were afterward obtained by Mr. Taylor, of Essex in England; and from these in 1833 the number had in-creased to 50. The down they furnished proved, however, to be too little in quantity to be of value; but by crossing the breed with the Angora goat, the downy product was largely in-creased, and it proved, moreover, to be of a long, silky quality, admirably adapted for shawls. With the wool obtained from these goats and that imported from Thibet through Kasan, capital of a Russian province on the Volga, the French maintain the extensive manufactures they have established of shawls made princi-pally of this material. To imitate the genuine cashmere successfully greatly taxed the skill of their manufacturers; and though in Paris shawls have been produced like those imported, it is found more profitable to limit the manufacture to somewhat similar but more easily woven fabrics. The real cashmere is made by a very complicated process, which requires not only as many yarns in the west as there are colors in the pattern, but also as many little

shuttles or pirns (like filled with these yar repeated in the b skilful use of these we plicated with variety or comor precisely alike on both sides. have also done in their imitations of mere. But the principal articles of they manufacture are the so-called Fr mere shawls, in which the 2 sides are we but on one side they have the exact app of the cashmere. They are made in l the use of the draw-looms or, which of the jacquard, with as many al colors in the design. These are throws the warp as required; but being them brought into play only at i threads remain floating loose on the sec. are at last trimmed off. Their felting pr prevents their coming out, but the ends on tinue visible on the wrong side. The process saves labor, but wastes material; the waste in however, worked up in other fabrics. Is the Paris-made articles the warp and weft are both of pure cashmere down. The shawls are most ly square, of from 71 to 761 inches on a sile, and of the value of 220 to 500 francs. They have seldom less than 8 colors, com 10 or 11, and sometimes 14 and 15. Theles shawls in pure cashmere ought to measure fr 59 to 63 inches in breadth, and from 1414 to 1494 inches in length. Their price is from 3 to 700 francs. But there are also 2 varieties made at Paris, which differ somewhat from the above. One, called the Hindoo cashmere, he the warp in silk, and the rest is pure cashes down. One or two colors less are employed, which reduces the price to 180, and from the to 120 francs. The other is called the Hindse wool shawl. In this the warp is also silk, and the rest is of wool more or less fine in quality. This article is much more largely required the the others. The value of its annual production is reckoned to be from 12 to 15 millions of francs. Lyons leaves to Paris the manufacture of the pure cashmere goods, but succeedily competes in the production of the pure wed Hindoo article. The wool employed rivals in softness and fineness that of the Cashmere god. But the most important of the fabrics of Lye is the so-called Thibet shawl, made of a mixture of wool and floss silk. In the manufacture of these and other varieties of shawls it is estimate ed that there are in Lyons 4,000 looms, each of which when in operation requires the atte tion of 3 persons. Nismes and Rheims have also each a factory which produce similar articles at great economy and at lower prices than those of Lyons and Paris. This important branch of industry is altogether the direct result of the efforts made to imitate the Cashmere shawk, first known in Paris during the present century.

—Dr. J. B. Davis, of Columbia, 8. C. while employed, a few years since, by the Turkish government, in experimenting on the growth of cotton in the Ottoman empire, succeeded in

9 pure breed Thibet goats, which he to his native state, from whence the s been introduced into Tennessee, where I to thrive. In 1857 the wool raised in see brought \$8 50 per lb., the purchasers York proposing to send it to Scotland, it manufactured there into shades.

HNA, a country of interior Africa, lying a Haussa and Bornoo, and separated from the Niger. Its capital is of the same and is situated in lat. 13° 10' N., and 50' E. Cashna is a mountainous but very listrict, and produces abundantly barley, senna, and the grape. It maintains a

b with north Africa, by a caravan starting from Fezzan, and passing Assulatt, and Agadez, reaches in 60 days the of Cashna, and in 5 days more the river and thence proceeds to the S. even as far gold coast. Its principal exports are st, cotton, slaves, and dyed goat-skins; its woollen, cutlery, mirrors, and toys.

MIR, or Kazimierz, the name of sevenarchs of Poland. I. The son of Mie-II., and of Rixa, a German princess

1058). After the death of his father, ner ruled the country as regent; but the he bestowed upon her own countrymen, r ill conduct, caused an outbreak of naatred, before which Rixa fled to Ger-Casimir followed her. Poland, left a ruler, became a scene of the wildest and lawlessness; the lately established n church had also to suffer greatly from ersecutions. Profiting by this state of the Bohemians made an incursion into and advanced as far as Gnesen, whence rried away the body of St. Adalbert, ojciech), or, according to the relation riests of the place, the cunningly subbody of another man. Casimir was called by his countrymen from Gerwhere he was living in quiet retirement 1 with exercises of religious piety, ;ained him the surname of "the monk." assisted by Henry III. of Germany, he i his authority, and restored Christiid a regular administration of justice, ed Masovia, gained Breslau and other rom the Bohemians, and was honored ne title of Restorer of Poland. is Dobrogniewa, sister of Iaroslav, the rince of Kiev; his successor Boleslaw Bold, his eldest son. II. The Just, born ied 1194. He was the youngest of the of Boleslaw III., or Crooked Mouth, whom this monarch divided Poland, and over the reunited country after the exof Mieczyslaw III. the Old (1177). He ly renowned for his personal virtues, as for the introduction of laws defending sants against the nobles and officers of rt. Under him the Polish senate was zanized, consisting of bishops, palatines, ellans. He made successful expeditions ynia, Halicz, and Lithuania. III. THE

Great, born 1809, died 1870. He was the son and successor of Wladyslaw Lokietek (the Short), who had restored the union and the power of the long distracted kingdom. While still a prince, Casimir displayed his talents as governor of Great Poland, as well as his bravery in the wars of his father against the order of Teutonic knights, but also exhibited habits of great dissoluteness. In 1888 his father bequeathed him his throne, with the advice not to enter into any treaty with the Teutonic knights; but the inclinations of the young king were for peace, and he soon concluded a treaty, in which the knights ceded the districts of Kujav and Dobrzyn, but gained Pomerania. secure peace from the kings of Bohemia, he sacrificed to them the rich and valuable province of Silesia for the resignation of their claims and pretensions on Poland. Dissatisfied with his acts, the warlike nation sought redress for their grievances from the Teutonic knights at the court of Rome. The pope gave a favorable decision, commanding the knights to restore all the Polish districts, and to rebuild the destroyed churches; but the knights, trusting in their swords and in the aid of the emperor, scorned the bull, and maintained their conquest In the meanwhile Casimir had strengthened his reign by salutary and peaceful reforms, as well as by the erection of numerous castles and fortifications. The adoption of his nephew, Lewis, son of Charles Robert, king of Hungary, as successor to the throne of Poland, confirmed by the assembly of the nation at Cracow (1339), secured the alliance with Hungary. In 1340 the death of Boleslaw of Masovia and Halicz, who died without prog-eny, offered a favorable opportunity for the an-nexation of Red Russia, which was easily executed in two successful campaigns. A consequence of these was an incursion of the Tartars (1841), at the summons of certain Russian princes, who pre-tended to have been wronged. Casimir fortified and defended the line of the Vistula, and by the speedy retreat of the invaders, Poland happily escaped total destruction. In 1344 some difficulties, caused by the dukes of Silesia, brought about a short war with the king of Bohemia, which was begun by the conquest of Silesia, and ended with the acquisition only of Fraustadt. Subsequently parts of Lithuania, Masovia, and Volhynia were added to Poland. But greater and more glorious were the successes achieved by Casimir in time of peace. diet of Wislica (1347) sanctioned a double code of laws for Great and Little Poland, digested by the ablest men of the country, based in part on the ancient statutes of the nation, and in part on the German, or the so-called Magdeburgian institutions, according to which the commercial cities were governed. The rights of both nobles and peasants were determined and secured, and so great was the zeal of Casimir in defence of the latter against the former, that he was called the king of the peasants (król kmiotków). No less great was his ardor and activity in promot-

ing industry, commerce, arts, and sciences (particularly proved by the foundation of the university of Cracow), and in adorning and strengthening the country with buildings for public use and defence; and thus he deserved the remark of an ancient historian, that he inherited Poland of wood and left it of stone. Agriculture, industry, and general wealth gradually increased under Casimir; and the riches, pomp, and liber-ality of the state were displayed in an astonishing way on the occasion of the marriage of his granddaughter with Charles IV., emperor of Germany, which was celebrated for 20 days at Cracow, in the presence of Lewis king of Hungary, Peter king of Cyprus, Waldemar king of Denmark, and a great number of dukes and other distinguished guests. But his reign had also its shades: unhappy marriages; love affairs condemned by the people and the church; an excommunication by the archbishop of Cracow; a deadly revenge taken on its innocent announcer; the subsequent humiliation of the king by the pope; and a great defeat by the Wallachians. A fall from a horse ended the life of the most popular monarch of Poland.—Among the objects of the love of Casimir was the Jewess Esther, the heroine of so many romances, by whom he had several children, and who is supposed to have contributed greatly to the humane protection which he and his laws bestowed on her people in Poland, in the time of most barbarous persecutions in other parts of Europe. IV. Born 1427, died at Grodno 1492, was the son of Władysław Jagiello, and brother and successor of Władysław III., called Warnenczyk, from his defeat and death at Varna in 1444. Casimir was at that time grand duke of Lithuania, and accepted, but hesitatingly, the call to the throne of Poland. His long reign is re-markable for several diets held at Lublin, Piotrkow, etc.; for a successful war of 14 years against the Teutonic knights, terminated in 1466 by the peace of Thorn, which gave to Poland the western part of Prussia and the suzerainty of the eastern, and for the subsequent long period of general prosperity, luxury, and relaxation of the national spirit. The introduction of the Latin language into the schools and publie life of Poland dates particularly from this reign. Of the 6 sons of Casimir, one was elected king of Bohemia and Hungary, three, John Albert, Alexander, and Sigismund, succeeded each other on the throne of Poland, one became a cardinal and one a saint. V. See John Casimir.

CASINO, or MONTE CASINO, a celebrated Benedictine abbey, established by St. Benedict in 529, upon the mountain of the same name, in the Neapolitan province Terra di Lavoro, rising over the town of San Germano, the ancient Casinum, in former times the seat of a famous castle, and of a temple of Apollo. The beauty of the spot attracted many visitors, and the medical skill of the friars many invalids to the abbey, while at the same time pilgrims resorted there from all parts of the world, as the Benedictines were deemed to possess miraculous

balms derived for
the abbey pre
as its inmates mave w
rian, Luigi Tosti, published w
Archivio Casinese, and in 1841–'48
Badia di Monte Casino.

CASPIAN SEA (called by the l of Astrakhan, anc. Mars Caspium num; Gr. Kaowia bahasou), an inlambetween Europe and Asia, lat. N., long. 46° 48' to 55° 25' E. from N. to S., 760 m.; g m.; average breadth about 000 sq. m. It is bounded N. s. by Russia, S. and S. W. by 1 Toorkistan. It has few bays, use on the Asiatic side, Emba bay. Karasoo inlet, Manghishlak gu ander, Kenderlinsk gulf, Koolet Balkhan bay; on the European a Agatch and Kooma gulfs, and se indentations. At the southern ex sea is Astrabad bay, and fr Emba bay at the north-easte shore extends nearly in a Emba river, which enters two name by several mouths, and t most the only considerable rivers ceives on this side, though the O: which now enters the sea of Aral, have once flowed into it. On the basin is far more extensive. Volga, the Terek, and the Koor here p waters into it, and most of them are ca bringing accumulations of sand, which instances, as at the mouth of t little islands, projecting seve coast. The shores are thus resucress access, and in the northern and no parts the depth of water for 2 or a land is only a few feet. All tl coast, as far S. W. as the Sool formation; thence S. to the pennsor ron it is of tertiary formation, brok sional carboniferous strata; and 1 around the S. extremity of the . are low and sandy, with lofty hillbackground. On the E. and S. E. is an taceous subsoil, covered with the surface, with the exception or being flat. In fact, the coast 1 low, that most parts are overflow wind sets in strongly from the oppn Naphtha, or petroleum, is free particularly on the peninsula of z the island of Naphthalia, in the The waters are not so salt as those of owing to the immense vo poured into the sea by the Ve rivers. They are very deep and remarkably shallow near the o the southern part. Ti 1 ATO DU sea has no outlet, the carried off wholly by dinary changes in its le

sever explained; according to native ac-, the surface rises and falls several feet in as of about 80 years. It has long been wn that the level of the Caspian is lower of the ocean, and in 1812 an attempt ----- by Engelhardt and Parrot to ascertain rence by a series of levellings and baical measurements across the Caucasian s to the Black sea. Measurements were m 2 places, one of which made the Caspian seet lower than the Black sea, and the er 301 feet lower. A survey made by the government in 1836-'7 proved the dif-of level to be 84 feet. Sturgeon, , belugas, salmon, and seals are taken in ma in great numbers, giving employment to y thousand persons. Nearly 100,000 seals, ,000 lbs. of roes, and 20,000 lbs. of isinglass, produce of 700,000 sturgeons, are taken year.—We have little knowledge of the -nt commerce of the Caspian. About the of the 13th century much of the trade of ope with India passed over it, Astrakhan then, as now, its chief port. On the e of Constantinople by the Turks, comwas forced into other channels. In 1560 English company made a fruitless attempt render it a channel of commerce with Perand Turkestan. Peter the Great had its sts explored by Dutch navigators, partly h the view of founding stations for the ian trade on the Persian seaboard, but his ject was not carried out. No Russian const was made on the Caspian sea until the time latharine II., and it was not until still more ent periods that Russia succeeded in obtaining control over its trade. The following table ts the shipping movements in its waters mg 5 years from 1851 to 1855 inclusive:

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•	Entrances.	Clearances,
1951	227	805
1852	279	666
1853	169	293
1654	181	911
1855	802	805

m average in 5 years of 230 entrances, and clearances of foreign vessels, beside the ty vessels engaged in the coasting trade. largest class of vessels by which the pian sea is navigated, of which there are at 100 sail, carry rarely less than 90 or than 150 tons, are called schuyts by Russians, and are built of the timber of the tat bring breadstuffs down the Volga to an. Another class of vessels of superior g qualities, of which there are about 50, y from 70 to 140 tons, and are called thises. Beside these 2 classes of vessels, to are a great number of small craft, and a charter for a Caspian steamboat navigation y was granted by the Russian governt in April, 1858. The principal ports are han and Bakoo. The Russian fleet in the pian sea consists of 4 brigs, 2 steamers, and ther vessels; total, 13 vessels.—Dureau-

amalle's Géographie physique de la mer

noire, Eichwald's Reise auf dem Kaspischen Meere und in den Kaukasus, Hommaire de Hell's Les steppes de la mer Caspienne, and the Beschreibung, published by Sawitsch and Sabler, giving their survey of the respective elevations of the Black and Caspian seas (St. Petersburg and Leipeic, 1849, in German), contain valuable information on the Caspian sea.

CASORIA, a town of Naples, pop. 7,924, the birth-place of Pietro Martino, the painter. It has 4 churches, and produces quantities of

silk

CASPARI, Karl Paul, a German commentator on the Old Testament, born Feb. 14, 1814, at Dessau. After studying at Leipsic and Berlin, and graduating in 1844 as licentiate in theology at Königsberg, he became, in 1847, teacher at the university of Christiania. In conjunction with Delitzsch he is publishing "An Exegetical Hand-book of the Prophets of the Old Testament," and "Biblical, Theological, and Apologetic-Critical Studies." To the former work Caspari contributed in 1843 the "Expositions of the Prophet Obadish," and to the latter work in 1848, "Contributions toward an Introduction to the Book of Isaiah, and the History of the Times of Isaiah." In 1849 he published a treatise on the "Syrio-Ephraimitic War under Jotham and Ahaz," and in 1851 on "Micah and his Book." He is a member of the committee for revision of the Norwegian translation of the Bible. He has published an edition, with a translation, commentary, and glossary, of the Enchiridion Studiosi of Boha-eddin: also a Grammatica Arabica.

ha-eddin; also a Grammatica Arabica.

CASQUE, the head-piece or helmet of the ancient Greeks and Romans. The origin of the word is not well ascertained, but is, perhaps, referable to the Latin cassis, the term for that species of helmet the basis of which was metal, as opposed to galea, the original signification of which is a leathern skull cap; although the words, at a later date, were confounded and used indiscriminately to signify the armor for the head, of whatever form or material. The casques of the ancients were of many forms, from the simple bowl-shaped skull cap, without either peak to shade the face or guard for the neck behind, to the elaborate crested helmet, with cheek-pieces, neck-plate, and visor covering the face of the wearer. The latter appendage was not movable, so that it could be raised or depressed at pleasure, but was a solid portion of the helmet, and was made to cover or expose the features, by thrusting the whole helmet backward or drawing it forward. In the latter case, the crown of the helmet fitted closely on the skull, and the fore part, which protected the whole face, having perforations to correspond with the eyes and a long perpendicular slit extending downward from these, on either side of the nasal, or plate for the defence of the nose, was drawn down to the chin of the wearer, giving complete protection, and con-cealing the countenance so absolutely that the wearer could not be recognized. In the former

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case, the crown was thrust back so far that it projected from the base of the skull behind, with the crest standing out horizontally backward, and the visor, or face-piece, resting flatly on the crown, so as to leave the features en-tirely exposed. The shape of this helmet and the mode of wearing it are, perhaps, best explained by saying that, in form, it exactly resembled a lady's cottage bonnet; that the ordinary mode of wearing it was the present fashion of putting it quite back off the head; while the mode of guarding the face was what it would be, if the real crown of the bonnet sat flatly on the top of the head, and the fore part were pulled down perpendicularly over the nose. It does not appear that these helmets were ever worn actually in battle, at least not in the second position; although some persons have supposed that the helmet of Aidoneus, which Minerva wore when she mingled in combat with mortals in the Trojan war, and which had the property of rendering its wearer invisible, was of this fashion. They were, however, certainly worn by the gladiators in the later ages of Rome; and specimens were found at Pompeii, something resembling the rudest form of the visored helmet of the 1st and 2d cru-sades. The ancient casques were ordinarily made of bronze, often of exquisite workmanship, with elaborate sculptures and designs in high relief, especially on the crown or headpiece, the cheek-pieces, buccula, and the cones, or ridges, which supported the crest of waving horsehair. This was often dyed crimson, but sometimes left white or black. The cones were sometimes 3 or 4 in number, and fashioned into the likeness of sphinxes, dragons, or lions. A helmet of Minerva, on a fine antique gem, shows 4 parallel crests, each supported by a prancing centaur. According to Homer, casques were often made of the precious metals, or at least overlaid with them. Steel does not appear to have been in use for the fabric of ancient armor, or, until a comparatively recent period, even for that of offensive weapons. The swordblades and spear-heads of Homer are all of brass, xalkos, whatever mixture that word represented, probably copper hardened with tin; and it is not until Æschylus wrote that we find steel, xalvy, and iron, oidnpos, used as synonymous for the sword. The word casque is used poetically in reference to all helmets, even to those of the middle ages, when it is applied to the whole covering of the head taken together without reference to parts, as the cerveilliere, avantaille, beaver, and other appendages. The casque of the Roman legionary soldier was of bronze, open, not protecting the face; but it had a peak to cover the brow, another to guard the nape of the neck, cheek-pieces hinged on to the casque and connected by a clasp under the chin, and either a crest or a plume of 3 tall erect, black and scarlet feathers. This was the fashion, as described by Polybius, and in vogue during the Punic wars.

CASS, the name of counties in several of the

United States. sq. m.; pop. 18,564. It is drained by the E ably rich in minerals. titanium, plumbago, marble, and marbound in several places. The diversified, and occupied in | hickory, pine, elm, and other trees oats, corn, cotton, and fruits are the p productions of the soil. Near the Etowis an artificial mound 75 feet high and 1.114 🚾 in circuit at the base. It has been of found to contain some articles of very earthenware. The county was named of Gen. Lewis Cass. Capital, Cassville. real estato in 1856, \$2,584,010. IL. A N. . of Texas, bordering on Louisiana and A bounded N. by Sulphur Fork of Red ri Big Cypress bay and Soda lake; area L pop. in 1856, 8,652, of whom 3,661 the surface is undulating, and pure by uncultivated swamps. The by uncultivated swamps. tile, and beside furnishing pe bers of horses and cattle. we b 1,573 bales of cotton, 167 45,462 of sweet potatoes, and a butter. The public schools no The forests furnish abundance us ! and in the S. W. part of the county mines of iron. Capital, Jefferson. co. of Mich., bordering on Indiana m.; pop. 10,907. It has a level: antly diversified by a number o. and occupied by prain . oak-openin forests. Iron and la minerals. In 1850 tue proto 418,860 bushels of corn, and 120,246 of oats, 68,020 of pi tons of hay. The crop of corn was any other part of the te except There were 8 churches, public schools. Capi N. W. co. of Ind., drained by rivers; area 420 sq. m.; pop. the vicinity of the rivers are l rest of the surface is generally between prairies in the N. and S. part. The productions in 1850 bushels of corn, 107,078 of wheat oats, and 8,0911 tons of hay. The churches, 2 newspaper estab pupils in the public school port. V. A. W. central co. w. L. m.; pop. in 1855, 8,946, bounded nois river and N. by the which rivers are here The surface is level, alu ... woodlands. The soil is ex in 1850 produced 1,417,75 131,136 of wheat, 150,197 of or of hay. There were 14 pupils attending public ac town. VI. A W. co. 6. the middle fork of Grand rive sq. m.; pop. in 1856, (slaves. It was formerly

springs of good water, and several stone and sandstone. The suroderawly uneven and occupied chiefly prairies. Productions in 1850, 800,976 f corn, 18,524 of wheat,65,113 of oats, tons of hay. Number of pupils in c schools, 748. Capital, Harrisonville. . W. co. of Iowa, recently erected; area 1; pop. in 1856, 815. It is traversed lishnabatona an affluent of the Miser. Comparatively little of the land cultivation. The productions in 1856 6 bushels of wheat, 40,013 of corn, oats, and 13,501 lbs. of butter. E. central co. of Minn., situated near e of the Mississippi; area 11,000 sq. m. included in the census of 1850, and tained very few civilized inhabitants. s small lakes are scattered over its Pine and other timber is abundant, ported in considerable quantities.

Lewis, an American statesman, born. N. H., Oct. 9, 1782, was the eldest onathan Cass. Both his father and ere of old New Hampshire Puritan lis father, at the age of 19, had enlistivate soldier in one of the regiments. New Hampshire immediately after sof Lexington. He was present at of Bunker Hill, and, having reënlistived to serve in the New Hampshire al line during the whole revolutionary are course of which he rose to the rank. He was recommissioned with the k in the army organized after the of the federal constitution, and was a promoted to be a major. While he loyed in the military service in the N. W. of the Ohio, his family remainster; and Lewis, at 10 years of age, he academy at that place, where he is studies with diligence and success.

In that year Jonathan Cass removed y to Wilmington, Del., where he was for some months in his military cad where young Lewis found employateacher. His father, meanwhile, ade up his mind to resign his commisto settle in the West, induced his son is fortune also in the same direction. In the Ohio from Pittsburg in a flatathe only means of conveyance, they to Marietta, the pioneer settlement of tern Ohio, in Oct. 1800. The father towed with his family to a tract of he Muskingum near Zanesville, which to him as military bounty, but young nained at Marietta, where he entered

y of the law. He was admitted to a Dec. 1802, and soon after established at Zanesville, where he gradually acractice. In the summer of 1806 he Elizabeth Spencer, whose father, then n the Virginia side of the Ohio, in , had emigrated from Lansingburg, in of New York. Shortly after his mar-

riage Mr. Cass was elected a member of the Ohio legislature, in which body he took a seat in December of the same year. The very first business that came up was a special message from Gov. Tiffin, based on communications made to him by President Jefferson, through a special agent, in relation to Burr and his designs, about which President Jefferson was greatly alarmed. This message, received in secret session, was referred to a committee of which Mr. Cass was a member. He drafted and the committee reported a bill, which he conducted through the legislature, where it encountered considerable opposition, authorizing the governor to call out the militia and to break up any unauthorized military prepara-tion which might be on foot. Under this act such of Burr's boats as were being built in Ohio. and his provisions collected in that state, were seized, and the Ohio part of the expedition was thus broken up. A legislative address, drafted by Mr. Cass, protesting attachment to the union, which Burr was suspected of a design to divide by the Alleghanies, drew out a highly complimentary reply from the president, who soon after acknowledged Mr. Cass's services by an appointment as U.S. marshal for Ohio. The emolument of this office was but trifling and its duties limited, and Mr. Cass still continued to practise law as before; but this federal office disqualified him from sitting any longer in the Ohio legislature. The lower branch of that legislature, not long after, undertook to impeach 2 of the judges for having decided that a certain state law was unconstitutional and void. Mr. Cass appeared on the trial as one of their. counsel, and by his able and successful defence added to his reputation as an advocate.—The hostile position of the western Indians and the growing difficulties with Great Britain led, in April, 1812, to the enrolment of 8 regiments of Ohio volunteers. Mr. Cass, who sympathized strongly with the popular feeling, was among the number, and was chosen colonel of the 3d regiment. These 8 regiments, about 1,200 strong, together with some 300 regulars under Col. Miller, constituted the army with which Gen. Hull was expected not only to protect Detroit from the British and Indians, but to invade and conquer Upper Canada. After a march of more than 200 m. through a swampy wilderness which then intervened between the frontier settlements of Ohio and those of Michigan, the troops reached Detroit early in July, war with Great Britain having meanwhile been declared. On July 11 they marched into Canada. The proclamation issued on this occasion was written by Col. Cass, for whom, too, the honor is claimed of having been the first man who, in the war of 1812, stepped in arms upon the British soil. He also commanded in a the British soil. He also commanded in a skirmish, on the 17th, in which the first blood was shed, the British being driven from a bridge across the Aux Canards river held by their outposts. Hull, however, alarmed at his isolation, and exaggerating the numbers of the

the next

enemy and the danger of his position, soon recrossed to Detroit, and on Aug. 16 terminated the campaign, to the mortification of his officers and men, by surrendering his army, and Detroit and the territory of Michigan along with it, to the British general Brock. At the moment of surrender Col. Cass was absent with a detachment sent to relieve a provision train, the approach of which had been stopped by the This detachment, however, was included in the capitulation, and being without provisions, was obliged to yield. Col. Cass, stung with mortification at this unexpected turn of affairs, when asked to deliver up his sword, indignantly broke the blade and threw it away. By the terms of the capitulation the Ohio volunteers were dismissed on their parole not to serve again till exchanged, and Col. Cass, at the request of his fellow-soldiers, hastened to Washington for the purpose of vindicating them from any responsibility for this disastrous termination of the campaign. His report, anticipating that of Hull, who remained a prisoner with the British, was the first official account of the campaign given to the public. Col. Cass was exchanged in Jan. 1818, and about the same time was commissioned as a colonel in the regular service. Ilis regiment was enlisted and ready by March, when he was further promoted to the rank of brigadier-general. He joined Gen. Harrison's army in July; and, Perry's victory on Lake Eric having opened the way, he bore his share in the pursuit of Gen. Proctor and the victory of the Thames. He was then placed in command at Detroit, and shortly after was appointed governor of Michigan. He now resigned the office of marshal of Ohio, which he had still continued to hold, and, not long after, his commission in the army also; having first, however, attended the court-martial for the trial of Hull. His testimony before the court, as his report had done, bore hard on that unfortunate commander, and has been at times a good deal criticized.—Though Detroit had been settled for more than a century, the territory of Michigan was yet in its infancy. It still remained what it had been from the beginning, little more than a station for Indian trade. The white inhabitants, mostly of French descent, did not exceed 5,000 or 6,000. Not a foot of land had ever been sold by the United States, the small tracts in private possession being held under French and English grants, often of doubtful validity. The settlements had neither church, schoolhouse, courthouse, gaol, bridge, nor scarcely a road, and the inhabitants had been reduced by the pending hostilities to a state of great destitution. The British had been driven away, but the neighboring Indians still remained hostile. The treaty of Greenville in July, 1814, at which Governor Cass aided, reestablished peace with the Ohio Indians; but it was not till the termination of the war with Great Britain that the territory became entirely secure from Indian attack. In June, 1815, Governor Cass removed his family to Detroit, and

a tract of our in cash, out os \$12,000. This wa travagant purchase. the growth of D chaser a very w time had no termorial k ness of selecting laws for a an the states devolved on Govern-territorial judges. Governor (officio superintendent of Ind territory, which then inch stitutes the two states of sin, and this remained are been most important part of his duties extensive territory, it was only a l bordering on Lake Erie and the D which the Indian title had yet 🛰 Within the bounds of his It ency, which was ultimately as all the tribes north-west of reckoned to be 40,000 In least 9,000 warriors. The r the distrust and suspicions of the state at sioned by the constant calls upon ditional cessions of land, rene of great delicacy and dif ١y. Cass, while steadily c acquisition, succeeded auso ... respect, and even in securit the Indians. In 1817 he observed. tion with Governor McArthur, a of the remaining Indian lands v of Ohio, with adjoining tracts ... Michigan, to the extent of 4 the whole. This ce n ren A removeu barrier hitherto in poteri ments of Ohio and three or he met the Chippewas at i a cession of lands in the to the extent of 6,000,000 acre north-western regions v known. At the suggesti an expedition, in which he spicuous part, and of which a published by Mr. Schoolcraft. in 1820, for exploring the 1 Lake Superior, and the course of sissippi. The next year, by a l river navigation, he visited Chic but a military post, with a wi about it, and there made a pewas, Ottawas, and Potes a large additional tract was un ing the extinction of the Indian insula of Michigan south of (1824 the population of creased, that a l lished. It consistes of warm elected by the people, but mo president. This v :he sec torial governn In 1825 Governor -vari, Governor Clark of council at Prairie du phien of

est, of which the object was, by a defitlement of boundaries, to put a stop wars which for years these tribes had gainst each other. In 1826 he met the ras in council at Fond du Lao, at the extremity of Lake Superior. In 1827,

d in a treaty at Green Bay, he was the hostilities which had broken out the Winnebagoes and the miners at iver, near Galena. Ascending the Fox secending the Wisconsin and the Missis-St. Louis, and returning to Green Bay Illinois river and Lake Michigan, he 1, in the course of 2 months, nearly 4,000 lostly in birch bark canoes, as yet the eans of conveyance on those waters. he made 2 treaties, one at Green Bay, r at St. Joseph's, by which many milacres were ceded to the United States. is resignation of the office of governor gan, in July, 1831, he had concluded 19 with the Indians, by which cessions had quired in Ohio, Indiana, Illinois, Michi-Wisconsin, to an amount equal to nearite a fourth part of the entire area of ites. Meanwhile, he embodied his exand intimate knowledge of the Indians ir affairs, the fruits of his long interith them, and of a diligent study of whatd been printed on the subject, in two published in the "North American Rene in 1828, in the 50th number of that al and the other in the 55th number. rticles attracted much attention, and ted largely to make their author The second article contained a full rethe relations between the Indians and tish and American governments, and the recent Indian disturbances to Britigation. These articles, with a dis-rhich Mr. Cass delivered in 1829 before ly formed historical society of Michigan, for him a literary reputation, and ocapplications to him for anniversary adand contributions to periodicals, with frequently complied.—When President reconstructed his cabinet in August, r. Cass was appointed secretary of war. cy of the removal of the Indians, espesouthern tribes, to districts west of the pi, had been warmly espoused by Gen. The defence of this policy, which had much criticism and a warm oppowas ably entered upon by Secretary his first annual report. Soon after, he ed to break a lance with the supreme the United States, upon the question of t of the state governments to extend ite laws over the Indian tribes within rritorial limits. In the case of the es, the supreme court had decided that e of Georgia had no such right. This was criticized and controverted by y Cass in an elaborate disquisition, d in the Washington "Globe," then the

organ of the government. The state courts of Georgia, taking a similar view of state rights, did not hesitate to imprison and hang in defiance of the supreme court of the United States. The removal policy, which was vigorously pushed, greatly strengthened the administration of Gen. Jackson in the South, but it was attended with an unlooked-for consequence, and met with an unexpected obstacle in the Florida war, the first 2 years of which fell within the period of Mr. Cass's administration of the war department.-In 1886 Mr. Cass exchanged his post of secretary of war for that of ambassador to the French court. Having got through the press of business which grew out of the recent interruption of diplomatic intercourse, occa-sioned by the indemnity dispute, and having settled the last remnant of that controversy by obtaining the interest on the indemnity withheld when the principal was paid, Mr. Cass in 1837 embarked at Marseilles for a voyage in the frigate Constitution to Egypt by way of Constantinople. The vessel followed the coast, and stopped at the principal ports, whence excursions were occasionally made into the interior. Mr. Case had thus an opportunity to see not only Constantinople, Alexandria, and Cairo, but Genoa, Leghorn, Florence, Rome, Palermo, Malta, Athens, Corinth, and Jerusalem. The Ægæan sea, of which he visited several of the islands, reminded him of the vast freeh-water seas of America, on which he had so often sailed. In the river Nile he found a strong resemblance to the swift and turbid Missouri. During his subsequent residence at Paris, Mr. Cass made frequent journeys in France, and also visited England. He was on excellent terms with Louis Philippe, of whose character he gave a very friendly and favorable account in his "King, Court, and Government of France," published in 1840, originally as an article in the "Demo-cratic Review." By far the most remarkable incident of his diplomatic career occurred just at its close, in his attack on the quintuple treaty for the suppression of the slave trade. Great Britain, subsequently to the year 1815, had taken that suppression vigorously in hand, but had soon found that the right of searching suspected vessels was a very necessary means to-ward accomplishing its object. It was decided, however, by the British admiralty courts that search was a purely belligerent right which did not exist in time of peace. Great Britain then sought to obtain this right by treaties, stipulating its mutual concession. Such a treaty was made with the United States in 1834, granting a mutual right of search "on the coast of Africa, the West Indies, and America," of vessels suspected to be slavers. The senate of the United States, in ratifying this treaty, struck out the word "America," which caused its rejection by the British government, in the hope of subsequently obtaining a larger concession. This hope, however, was disappointed. There was a disagreeable association in the American mind between search and impress-

ment, and the American government from this time forward steadily refused even what the rejected treaty had conceded. Meanwhile, Great Britain established this right of mutual search of suspected slavers by treaties with Spain, Portugal, France, and other states, and in further prosecution of the same policy, and with a view to incorporating this usage into the international code of Europe, and ultimately of Christendom, obtained the signa-ture at London, Dec. 20, 1841, of a treaty by which Great Britain, France, Russia, Austria, and Prussia mutually conceded this right under certain restrictions, and between certain latitudes. No sooner had the signing of this treaty, known as the quintuple treaty, become public, than Mr. Cass not only filed a protest against it in the French office of foreign affairs, but printed a pamphlet in hopes to prevent its approval by the French chambers. This pamphlet accused Great Britain of aiming, under guise of suppressing the slave trade, at a lordship of the seas, revived the impressment controversy, and attacked with much keenness the doctrine lately set up by Lords Palmerston and Aberdeen, in their correspondence with the American minister at London, that although, except by express stipulation, there was no right of search for the suppression of the slave trade, there was a right to visit suspected vessels for the purpose of verifying the flag and testing the right to bear it. This claim had been made the subject of animadversion in President Tyler's annual message of Dec. 1841, and it was the position then taken by the president upon which Mr. Cass mainly rested his protest against the treaty, as an attempt to in-terpolate a new doctrine into maritime law. At the close of this protest, which bore date Feb. 13, 1842, Mr. Cass stated that it was made without instructions from his government, with which there was no time to communicate, and that if not sustained in the position he had taken he should resign. In communicating his proceedings to his own government, he pressed the necessity of instant preparations for war. feeling of the French public and the French chambers, easily excited at that time to hostility to Great Britain, was such that Louis Philippe did not venture to ratify the treaty, which thus fell to the ground. The course adopted by Mr. Cass, though it brought great obloquy upon him from various quarters, was approved by the president; but in the Ashburton treaty, negotiated shortly after, Mr. Cass found occasion for throwing up his mission. The agreement of the United States in that treaty to maintain a squadron on the coast of Africa, to cooperate with the British in the suppression of the slave trade, without at the same time requiring from the British a renunciation of the doctrine of the right of visit, was regarded by Mr. Cass as substantially a disavowal of his protest and pamphlet, and as placing him in an awkward position with the French government, by no means well pleased with his in-

terference to defeat the quintu accordingly resigned his embashome, where he arrived at 1 year. His criticisms on the I contained in his letter of rea sharp controversy betwo Webster, then secretary of 1 tor of that treaty.-Already : in the United States, Mr. Choose bad be mentioned as a democratic cand. the presidency, and he soon had to answer as to his opinions on vars But the negotiations opened not long President Tyler and Mr. Calboun, for nexation of Texas, introduced a new into politics, on which the presid finally turned. Mr. Clay, the canon whigs, and Mr. Van Buren, for wh majority of the delegates elected to cratic nominating convention were to vote, both took grounds against annexation. That policy, however, ceedingly popular at the South, and beautiful and President Tyler, both of had hopes of a democratic chanan, R. M. Johnson, and other p candidates, came out as its advoca Cass gave in his adhesion, in a le days before the meeting of the c vocating annexation, and declaring conviction that a majority of the bein favor of it. The convention to more, May 27, 1844. The oppose Van Buren succeeded in carryi tion of the rule of the conver and 1836, requiring a two-thirus would On the 1st ballot Mr. Van Buren had jority, but lacked some 20 of the two-thirds. Mr. Cass had the though very much smaller, vote. proceeded, Mr. Cass gained, and on the lot received 24 votes more than but still short of a majority. ballot Mr. Van Buren was witl friends, who had determined to give for Mr. Polk, to the exclusion of Casa's name was also withdrawn. being read in which he author ceeding, in case it did not app and united exertion would be vor. Mr. Polk, who had of by the public for any his president, and whose name duced into the canvass till the Star he received some 80 votes, was at a lot unanimously nominated. campaign that followed, Mr. part, stumping the states of and Ohio, on behalf of Mr. 1-Mr. Polk's election, he v U.S. senator from the state ted into the Union in 1 increasing in population. Dec. 1845, he soon made h on the Oregon question, t pute with Great Britain.

enance at all hazards of our claims as far 54° 40', to which it was contended that rolk and the party had been pledged by Baltimore platform, not less than to the nexation of Texas. In the course of one of speeches on this subject, he took occasion retort upon Lord Brougham, who, in conseace of his interference with the quintuple and his pamphlet against it, had stigmahim as "the impersonation of mob hosto Great Britain." The Oregon dispute soon settled by a treaty made and rati-by the help of the whigs, in spite of opposition of Mr. Cass, and of a considersection of the democratic party; and overnment was thus left free to engage we war against Mexico. This war led introduction into congress by Mr. Wila democratic representative from Pennmia, of a proviso, famous as the Wilmot , that from all the territory acquired by with Mexico slavery should be excluded. roviso, at its first introduction near the of the session of 1846, seemed to have the st unanimous support of the northern secof the democratic party. No vote was ipon it at that session in the senate; but cass afterward admitted that, had the opmity occurred, he should have voted for it. this question came up again in March, ne advocated its postponement till after was close of the war. As the war approached a conclusion, his famous Nicholson letter made its appearance. This letter, dated Dec. 24, 1847, proposed to keep the question of slavery or its prohibition in the territory to be acquired from Mexico out of congress, by setting up for the legislatures of the territories an exclusive right of determining their own domestic institutions, equivalent to that possessed by the states. Mr. Cass declared himself in this letter decidedly opposed to the Wilmot proviso, as standing in the way of the acquisition of territory, and as unnecessary, since, from the character and climate of the country about to be scoured from Mexico, slavery could hardly go it. He did not deny his change of opinion m this subject, but justified it by the change imultaneously going on in the public mind. democratic nominating convention which Baltimore May 22, 1848, that change was manifest. In that body the Wilmot prohad few or no friends, except one branch of e double delegation from New York. These York Wilmot proviso men, refusing to die the vote of that state with the rival deleas the convention had proposed, presretired from that body, leaving New without a vote. The principal candi-were Mr. Cass, Mr. Buchanan, and Mr. bury, all anti-Wilmot proviso men. 1 st ballot Mr. Cass took the lead, and on 1th ballot he received the requisite twods of the votes cast, and was declared the didate. He found, however, a formidable onent in Gen. Taylor, nominated by the VOL. IV.-34

whigs on the strength of his military reputation acquired in the Mexican war; and he was still further weakened by the determination of the New York seceders from the conven-tion, the special friends of Mr. Van Buren, not to support him-a resolution in which they were sustained by the acceptance on the part of Mr. Van Buren of a Wilmot proviso, or as it was called a freesoil nomina-The division thus made in the democratic ranks secured to Gen. Taylor the state of New York, and his election to the presidency by a majority of 36 electoral votes. Mr. Cass, on being nominated for the presidency, had resigned his seat in the senate, but subsequently to his defeat was again elected in June, 1849, for the remainder of the term he had resigned. At the next session of congress, the Wilmot proviso being still agitated, and he himself being under instructions from the Michigan legislature to vote for it, he entered into an elaborate defence of the doctrine of his Nicholson letter, now fully taking the additional ground that the Wilmot proviso would be unconstitutional, congress having no right to legislate upon a subject over which the constitution gave that body no control. He professed himself a believer in the doctrine of instructions "when fairly exercised and under proper circumstances,' promised to resign rather than disobey. He had, however, as he was well aware, sufficient influence with the Michigan legislature to procure the recall of the instructions. He was a member of Mr. Clay's compromise committee of 1850, and supported all the measures which emanated from it, including the new fugitive slave bill. But he did not vote for that bill, excusing himself on the ground that it made no provision for giving the alleged fugitive, after he was carried back, a trial by jury to ascertain if he were really a slave. Such a provision Mr. Cass insisted would have rendered the bill much less objectionable to the free states. Being reelected a senator from Michigan for a second term of six years from the 4th of March, 1851, he still continued a prominent democratic candidate for the presidency. But in the convention which met at Baltimore in May, 1852, beside Mr. Buchanan and Mr. Marcy, he encountered another formidable competitor in the person of Mr. Douglas, who stood in this convention in much the same relation to Mr. Cass in which Mr. Cass had stood in that of 1844 to Mr. Van Buren. contest was long, but after a struggle of 5 days and 49 ballots, Mr. Cass found himself again passed over, and Franklin Pierce selected by a compromise among the conflicting interests as the candidate of the democratic party. slavery controversy, which experienced a tem-porary lull after the passage of the compromise acts, revived with new vehemence upon the introduction into the senate by Mr. Douglas, at the commencement of 1854, of the Kansas-Nebraska bill, including a proposed repeal of the Missouri compromise, or rather of that part of it excluding slavery from that portion of the

Louisiana cession north and west of Missouri. Mr. Cass declared himself opposed to this new agitation. He was aware, he told the senate, that it had been reported that he himself had intended to bring in a bill respecting the Missouri compromise, but this he declared to be a total mistake. The bill, however, having been modified by introducing into it the doctrine of the Nicholson letter, in a provision leaving to the inhabitants of the territories the power to regulate their own institutions in their own way, subject only to the constitution of the United States, Mr. Cass voted for it, and on the night of its passage he took occasion to congratulate the senate on the triumph of "squatter sovereignty." The passage of this bill led forthwith to the organization of a new party based on opposition to the extension of slavery, and which, under the name of the republican party, soon became predominant in most of the northern states. It triumphed even in Michigan, where Mr. Cass was unable to secure a reclection as senator. He even received from the legislature a new set of instructions as to his votes on the Kansas question, no less contrary to his own views than those on the subject of the Wilmot proviso of which he had formerly procured the recall. These instructions he did not obey, nor did he resign his seat. He took the ground that in order to be binding, instructions must come not merely from the legislature, but from that party in it to which the senator sought to be instructed was indebted for his seat; and as that was not the case with these instructions, he declined to pay any attention to them.—In the convention which met at Cincinnati in May, 1856, to nominate a democratic candidate for the presidency, Mr. Cass was no longer a candidate, beyond receiving a few scattering votes; but in the nomination by that body of Mr. Buchanan he heartily concurred, and upon Mr. Buchanan's entering upon office in March, 1857, received from him the appointment of secretary of state. In this ca-pacity he has been enabled to achieve a very gratifying triumph, in obtaining from the British ministry the recognition as correct of his denial, so warmly urged in his pamphlet on the quintuple treaty, of the existence in time of peace of any marine right of visit; he conceding, however, that in cases of grave suspicion of a false assumption of national character, and where no injury results from the visit and search, no serious ground would exist for national reclamation.—In the enjoyment of excellent health, Mr. Cass still retains, notwithstanding his advanced age, a remarkable capacity for labor. Possessing naturally a very robust constitution, he has confirmed his health by strict temperance, himself practising that total abstinence from intoxicating liquors which, as governor of Michigan, he urged upon the Indians, and as secretary of war, sought to introduce into the army. "His habits are simple, his manners and disposition democratic; his style of living plain but substantial; and his residence not estentatious

but elegant. Averse to idles he is merry with his companie his friendship. He is remarkable for he bility to young persons, and surr at his own table, he can be as m happy as the gayest of them. kum study and pleased with his own reflect. retirement, he is not a recluse, but on al. sions his admirers, friends, and fellow welcome to his large and hospitable To a well selected library he makes additions from the numerous publicate the day. He delights to pass an hour or m a the perusal of romances such as the Cooper, Irving, or the like." See Times of Lewis Casa," by W. L. G. New York, 1856. The same friendly rapher notes as a marked characteristic "having always evinced an aversion to thing that savored of British."

CASSANDER, king of Macedon, Antipater, bora about 854 B. C... IIIe disputed the sovereignty of Polysperchon, whom Antipater and regent at his death in 819. All with Ptolemy and Antigonus, he Athens; captured Olympias, the Alexander the Great, and put her aud connected himself with the royal marrying Thessalonica, half-sister to the growing power of Antigon 311, the rightful heir to the turuse, 2 Ægus, and his mother Roxana; and title of king in 806, which was con

him by the decisive battle of Ipsus CASSANDER, GEORGIUS, logian, born in the island of land, in 1515, died Feb. 3, 1500, some time as professor of divinity a Ghent, and gained a high reputation by rious attainments. In 1561 he pa tise, designed to reconcile the Protestant theologians, which was -Calvin, but favorably received by Ferdinand and other Gen n prin peror encouraging him to perior task. He now brafamous work entitled Consul-Fidei inter Papistas et Protestantes es in which he reviews the controv of the Augsburg confession. He v attached to the Roman Cath was accused of taking too favor. the points brought forward by and several of his writings were the council of Trent. His colle published in Paris in 1616.

CASSANDRA, called also ALEXARDRA, a Trojan princess, daughter of Prism and Hactha. Apollo, enamored of her, permitted her to ak of him whatever she desired, as a reward for her complaisance. She begged for the gift of prophecy; but when the god had bestowed a upon her, she refused to keep her premise to him. Thereupon Apollo, unable to withdow m her the prophetic art, ordained that her edictions should never be believed. In vain e foretold that the abduction of Helen would the ruin of Troy—counselled the making e with the Atrida-announced to Priam, and the Trojan people, the fate which waited them—and opposed the reception of wooden horse. On the night of the capof Troy, she took refuge in the temple of a but was torn away from the statue of goddess by Ajax, son of Oileus. She fell y lot as a slave to Agamemnon, who carried to Greece; and, after fruitlessly advising rince of the fate which was reserved for she perished with him in the massacre ed by Clytemnestra. She is an important personage in Greek poetry, and is the heroine a poem by Lycophron, celebrated for its obcurity.

CASSANO, a picturesque town of Naples, province of Calabria Citra, in the district om. E. of Castrovillari; pop. about 6,000, rising many Arnauts. It is built in the ve recess of a steep mountain, round an susued rock, on which are the ruins of an ent castle. It is the see of a bishop, cona cathedral, 4 convents, an episcopal sem-, and hot sulphurous springs, and plasand stone quarries are in the vicinity. The bitants are principally employed in the cture of macaroni, leather, table linens, mories of cotton and silk. Cassano is supto stand on the site of the ancient Cosa; ding to some other authorities, however, the muboring village of Civita (an Albanian coly) occupies the real site of the ancient town. town in the province of Principato Ultra, 8 S. W. of St. Angelo, has a fine church, a hosal, 2 charitable institutions, and a paper man-ectory; pop. about 4,600.—There is another ssano in the province of Bari, and there are eral places of the same name in Lombardy. CASSANO SOPRA ADDA, a town of Loindy, in the government and 16 m. N. E. of Mi-, noted for its numerous silk factories. vn occupies an important military position on river Adda. A battle was fought here, Sept. 1259, which resulted in the defeat and oture of the tyrant Ezzelino. On Aug. 16, 15, a victory was gained here by the French der Vendome, over the imperial troops under ince Eugene; and on April 25, 1799, the ench, under Moreau, were defeated here by Russians and Austrians, under Suwaroff. CASSATION, Court or, the highest court appeal in France, was established by the first tional assembly, Nov. 27, 1790, under the of tribunal de cassation, with a view of

of tribunal as cassation, with a view of temps an end to the confusion that had so gely prevailed in the judiciary system of the intry, and of imparting to the whole jurisdicn a spirit of unity, without endangering the lependence of the inferior courts. In 1804 name of cour de cassation was given to court, which it still retains. The functions the court are not to go into the facts, but

simply to revise the proceedings of the inferior courts, and any decision taken by the court of cassation is considered final and binding. It is composed of a president, 8 vice-presidents (prisidents de chambre), 45 counsellors, an attorney-general (procureur général), 6 assistant attorney-generals (avocate généraux), a chief clerk (greffier en chef), and only 60 advocates are permitted to plead before the court. The counsellors are elected for life, and in the case of one dying, the emperor proposes three new candidates, of whom the senate chooses one. president, the vice-presidents, the attorney-general, and the assistant attorney-general, are appointed by the emperor. The court is divided into 8 chambers, one for appeals in civil and one in criminal cases, and the chamber of requests, a sort of preliminary tribunal, which decides on the locus standi and admissibility of the appeal. -A court of cassation and revision was established in Berlin in 1819, for the Rhenish provinces of Prussia; the Düsseldorf court of appeal and 6 district courts are under its jurisdiction.

CASSAVA, the meal, and bread made from it, obtained from the roots of several species of the genus manihot (from the Indian manioc)plants of the family of the euphorbiacea, which grow in the West Indies, South America, and Africa. Three species are described, but under different names by different botanists. genus, formerly included in jatropha of Linneos, was separated by Kunth, and called janipha; and the common species was designated as J. manihot, of which two varieties, the sweet and bitter, are distinguished. But later authorities designate the genus as manihot, and the common species as M. utilissima; another species as M. aipi, and a third as M. janipha. The first is the bitter cassava, indigenous to Brazil, and cultivated in other parts of South America. It is a shrub that grows 6 or 8 feet high, and has a large tuberous root, which sometimes weighs 80 pounds. This root contains a large proportion of starch, which is associated with a poisonous milky juice, containing hydrocyanic acid and a bitter acrid principle. The other two species do not possess this poisonous juice. All are used alike for the preparation of the meal. The root is well washed, then scraped or grated to a pulp, and this, when of the poisonous kind, is thoroughly pressed in order to remove the juice; but even if some of this is left in the meal, it escapes by its volatility in the process of baking or drying the cakes upon a hot iron plate. Afterward dried in the sun, the cassava is kept as food, to be mixed with water and baked like flour in large thin cakes. These are a coarse, cheap kind of bread, much used by the negroes and poorer whites, in which the ligneous fibre is plainly visible. Its nourishing qualities con-sist in the starch of which it is principally composed. The expressed juice also furnishes by deposition a very delicate and nearly pure starch, when left to stand for some time. Well

washed with cold water, and afterward dried, this is the tapioca of commerce, sometimes called Brazilian arrow-root.

CASSAY, KATHER, or MUNNIPOOR, a country of India, lying between lat. 24° and 26° N., and long. 93° and 95° E.; area estimated at 7,584 sq. m.; pop. at 75,840. It consists of a central fertile valley, surrounded on every side by mountains, varying from 6,000 to 9,000 feet in height, and covered with dense forests. The valley thus enclosed is 86 m. long and 18 m. broad, contains 650 sq. m. of rich alluvial soil, and is 2,500 feet above the level of the sea. It produces abundantly rice, tobacco, cotton, sugar-cane, and indigo; and in the north, also the tea-plant. Nearly all the garden produce of Europe is raised here in gardens, having been introduced by the British since the Burmese war. The surrounding mountains abound in the noblest varieties of forest trees, and wild elephants and deer of the largest size are constantly seen among the glens and defiles. The inhabitants more nearly resemble in person and manners the Hindoos than the Burmese. The upper classes profess the Hindoo faith, and this country may be con-

hereditary rajah. OASSEL, an ancient town of France, pop. 4,495, department of Nord, 28 m. N. W. of Lille, agreeably situated on an isolated hill 600 feet high, commanding one of the most extensive views in Europe. It was strongly fortified during the middle ages. In 1070, King Philip I. of France was defeated here by Robert le Frison, count of Flanders; in 1828, Philip VI. won a complete victory over the Flemish troops; and in 1677, Philip, duke of Orleans, brother of Louis XIV., triumphed here over

sidered the extreme eastern limit of Brahminism.

Cassay belonged to the Burmese before 1826, when, by the treaty of Yandaboo, it became

independent. Its government is vested in a

the prince of Orange.

CASSEL, or Kassel, the capital of the electorate of Hesse Cassel, Germany, and of the province of Lower Hesse, on the river Fulda, connected by railway with Frankfort on the Main, and, ria Hanover and Eisenach, with Berlin and Leipsic. Pop. about 35,000 (beside a garrison of 4,000 men), all Protestants, excepting 8,000 Catholics and 1,000 Jews. It is divided into the old town, the lower new town, and the upper new town, and has 10 Protestant churches, a Catholic church, and a synagogue. St. Martin's church contains the tombs of many of the electors. The city contains the government buildings, the elector's palace, the theatre, the observatory, and other fine edifices. The museum comprises collections of pictures and natural history, and a library of about 100,000 volumes. The Friedrichs Platz, with a statue of the elector Frederic I., who was the founder and patron of the principal art collections of Cassel, is one of the most admirable public squares in Europe. public gardens are charming, especially that of

Williamshöhe, in the vicinity, in a elector's summer palace is situated. manufactures of cotton, silk, and rics, leather, hata, carpeta, kid gloves lain; and the place is in a g emporium of the trade of fairs and a wool market are mild h The town abounds with educ literary, artistic, and musical i the composer resides in this carv. the historian died here. The p paper is the Kasseler Zeitung. CASSIA, the bark of the cina

an inferior quality of cinn mixed with the genuine mon.)—Cassia is also a cies of which furnish we medicine senns, and sometimes known as cassia.

CASSIN, JOHN, an A born near Chester, 12 muss Penn., Sept. 6, 1618. He adelphia since 1834, years partially given w merc has devoted himself to his favorage ornithology. He has contribu of new species and synoptical rious families to the "Proce "Journal" of the Phi elphia re elab ural science; and his tions are "Birds of (handsome octavo volu tions and colored engrav given by Audubon; a "by of North America," not yet thology of the United States adition;" "Ornithology of t dition;" "Ornithology of tion;" "Ornithology of Gil Expedition to Chili;" and tas pacious and wading birds in th of the Pacific Railroad E veys." His works . . t search, and are descriptions and given in the previous Audubon.—Mr. Cassin of several members of wu themselves in naval and great-uncle, John Cas American navy, conduced adelphia in the war of 181z. PHEN CASSIN (1782-1857), also = served under Com. Proble in the oli, and for his bravery in the a Champlain in 1814. under C was rewarded by CASSINI, the onomers. I. Jean

tronomers.

Jesuits at Genoa, and was professor of astronomy at

observed the shadows of

of Jupiter's rotation, and:

in the wholly discoun

the body of the planet, any pur rides of those bodies. He disco 1673 he removed to Paris, discovered s of Saturn, noticed the zodiacal light, sed the moon's libration in an able II. JACQUES, son of the preceding, Paris in 1677, died April 16, 1756, is I for his labors upon the system of : Saturn, and also upon the figure of . He superintended the geodetical nts in France, commissioned in 1733. FRANÇOIS, son of the foregoing, born 1714, died Sept. 4, 1784, devoted a t of his life to an accurate survey of nd the preparation of maps of that IV. JACQUES DOMINIQUE, son of the born in Paris, June 80, 1747, died 845, was director of the observatory ind continued the improvement and

NO, a game of cards in which 4 are ach player, 4 being also placed on the The greatest number of cards counts and of spades, 1; the 10 of diamonds, of spades, 1; and each of the aces, 1. t is to take as many cards as possible. 0 in the player's hand will take a 10 board, or any number of cards which de to combine into 10. The name of s derived from the societies' rooms in continental Europe generally, under of casinos, where probably the game

n of his father's maps.

DDORUS, MAGNUS AURELIUS, & Rossman under the Ostrogothic monn at Scylacium, in the Bruttium, A. D. of death unknown. He was of an anwealthy Roman family. In his youth aished himself by his talents. Odoacer, ne Heruli, the 1st barbarian king of ed the young Roman to the high office erum privatarum, and afterward to nes sacrarum largitionum, which gave command of the treasury of the kingen Theodoric, king of the Ostrogothis, and supplanted Odoacer, he used his among the Bruttians and the Sicilians their peaceful submission to the Osmonarch. Theodoric gladly took him ervice, and for many years, and under tles, he was prime minister of the barigdom of Italy. When Theodoric in e began to persecute the leading Latservice, Cassiodorus prudently resituation and dignities, and retired tes. After the death of Theodoric called to power, served with distincfidelity Amalasontha, Athalaric, Thed Vitiges. Upon the temporary trihe emperors of the East, being now 70 ge, he retired again to the monastery which he had founded in Calabria. In it he passed the remainder of his days, re prolonged until the ex-minister was entury old. His career as a historian of letters began when his career as an ended. The monastery of Viemorable in the history of the human

mind. Cassiodorus taught his monks to labor in the fields as husbandmen, and to devote themselves to the copying of ancient manuscripts, then perishing rapidly under the effects of barbarian ascendency and Roman neglect. This monastery was taken as a model for others founded in all parts of Christian Europe. His arrangement of the branches of a liberal education into grammar, rhetoric, and dialectics (the trivium), and arithmetic, geometry, astronomy, and music (the quadrivium), was accepted throughout the middle ages, and long after, as the only true programme of a liberal education. His writings on education form a considerable part of his literary remains. His history of the Goths in 12 books has not survived, but the epitome of the same by Jornandes is extant, and is an invaluable authority. Equally important in a critical point of view are his state papers in 12 books, which fortunately have survived. These documents are our chief authority upon the internal condition and government of Italy during the period of Ostro-gothic rule. The style is very florid and af-fected, the language very corrupt. Tiraboschi characterizes them as barbara elegansa. He also wrote a universal history down to A. D. 519, and an ecclesiastical history from the era of Constantine down to the time of Theodosius the younger. These 2 works enjoyed great consideration during the middle ages, but since the revival of learning have fallen into oblivion. The 1st edition of his works was published at Paris in 1584; the latest and best is that published by D. Garet at Rouen, 1679, and reprinted at Venice, 1729. We have 3 biographies of Cassiodorus, one in Latin, prefixed to Garet's edition of his works; another in French by St. Marthe, Paris, 1694; and a 8d in German by De Buat, in the 1st volume of the transactions of the royal academy of Munich.

OASSIOPEIA, a northern constellation, easily recognized by the form, a letter W, on the oprecognized by the form, a letter w, on the opposite side of the pole from the Great Bear;
named from the wife of Cepheus (king of Ethiopia), and mother of Andromeda. (See Ovid's
"Metamorphoses," V., and the "Phenomena"
of Aratus, 187.) The constellation was distinguished in 1572 by a brilliant temporary star
which shone for 18 months and then disappeared. It was this phenomenon that led Tycho Brahe to study astronomy.

CASSIQUIARE, or CASSIQUIARI, a deep and rapid river of Venezuela. It forms the S. fork of the Orinoco, and connects that river with the Rio Negro. Where it leaves the Orinoco it is 100 yards broad, and at its junction with the Rio Negro, about 600. By means of the Cassiquiare water communication is established for canoes from the interior of Brazil to Caracas, in Venezuela.

OASSIS, in conchology, the name of a genus of univalve shells, separated, by De Lamarck from the bucciuum of Linnseus. It includes the pecies known as "helmets." Fine specimens of this genus are obtained for the use of the cameo

artists, the different colored layers of which the shell is composed rendering it particularly well

adapted for their use.

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CASSITERIDES, or The Islands, supposed from the quantity of tin which the Phonicians, Carthaginians, and Romans derived from them, to be the modern Scilly islands, near the coast of Cornwall, England. Their position, too, as defined by Strabo, corresponds more nearly with the Scilly group than with any other. Situated almost within the English channel, they have been very dangerous to modern navigation, and are become not less celebrated for the shipwrecks which they have caused than for their mines of tin. The Phonicians who first discovered these islands were so jealous of the commerce which was supplied by them that their pilots first landed upon the neighboring coasts, and approached the mines only by stealth, to elude any ships which might be following and observing. The Romans sent here their criminals to work and be useful. The ancient inhabitants of these islands were accustomed to dress in black, to lead a wandering life, supplying all their wants by fish, milk, and the wool of their flocks, and satisfied in receiving salt and little brazen utensils in return for their lead. The group consists of 45 islands, several of which

are only naked rocks. CASSIUS. I. Longinus Caius, the leader of the conspiracy against Casar, died in 42 B. C. In 58 he was questor in the campaign against the Parthians, and distinguished himself by military skill, particularly after the death of Crassus, in the defeat of Carrhæ. Having collected the remains of the army, he defended Syria, and won in the two next years 2 victories over the Parthians. After his return to Rome he was tribune of the people, embraced the party of the senate at the outbreak of the civil war, and followed Pompey, whose fleet he then commanded, in his flight. After the defeat at Pharsalia (48 B. C.), he led the fleet to the Hellespont, but having fallen in with Cæsar, he surrendered. Casar pardoned him, made him prestor, and promised him the province of Syria. At the same time Cassius was engaged with Brutus in forming a conspiracy against the dictatorial rule and the life of his benefactor. Cassar fell on the ides of March, 44 B. C., and the senate rewarded his murderers with provinces. Cassius, received Syria, where he defeated his opponent Dolabella, plundered its cities to provide means for the war against Antony and Octavianus, and returned with Brutus to Macedon. The 2 ensuing battles of Philippi (42 B. C.) ended their lives with the hopes of the Roman republicans. In the first, Antony defeated the wing of Cassius, who, mistaking the cavalry of the victorious Brutus, hastening to his relief, for that of Octavianus, killed himself, as Plutarch says, with the dagger which wounded Cresar. In the second, Brutus, who mourned him as the last of the Romans, followed his example. II. Cassius, commonly called Parmensis,

from his birthplace, the city of Parts in was a Latin poet of some meritand murder of Conser he adhered to the republican party of Brutus and his name of Cassius, and fought on their side until the feat at Philippi; he then retired to Attach where he was put to death by Varian, of Varian, or officer of Augustus who was not to the property of the property o an officer of Augustus, who was sent there for that purpose by the triumvir. He is not to be confounded with Cassius of Etruria, who is risculed by Horace in his Sermone for his facility and poverty of composition, but is believed in to pieces in the streets of Rome by the immediately on the celebration neral rites, and the raising of Maro Antony. III. Lucrus Castle the earliest Roman annalist, where the carriest Roman annalist Roman annalis B. C., and is often cited by Pliny and other IV. LUCIUS CASSIUS & Roman lawyer and july famous for the severity of his decisions, when all magistrates of extreme stringency can be be known as Camiani judices, as is meeting by Cicero in his defence of Roseius. V. Imi CASSIUS SEVERUS, a Roman orator of comiles ble eloquence and great satirical powers, and by Augustus to the island of Seriphus, wherele died in extreme misery.

CASSIUS, PURPLE OF, a pigment usel is coloring porcelain and glass by fusing it will these substances. It is a precipitate detailed by adding proto-chloride of tin to a solution chloride of gold. The purple powder threes chloride or gold. In purpse power down is an obscure compound of tin and oxide of gold. It common the gold 89.82 per cent. Its podesting CASSOCK, a close garmen long frock-coat, with a single worn under the surplice by classical and Anglices.

Roman Catholic and Anglican churches. the Roman church it varies in color, but black for priests, purple for bishops, scarled in cardinals, and white for popes. In the Assican church it is always black, and worm by a

the 8 orders of the clergy.

CASSOWARY (converies on Labora) bird of the ostrich family, the only the genus. The bill of the case compressed, and curved to the tip. mandible overlapping the under. The windows of 5 strong rounded shafe with webs; the tail is not appearent; the tard long and robust, and covered with large small the toes are 8 in number, all directed forward; the inner toe is armed with a very long powerful claw. The head and been of the bill as surmounted by an elevated compressed on or bony helmet; the head and neck are den of feathers, the skin being of a blue and violate color, with 2 fleshy wattles in front. It is a heavy massive bird, about 5 plumage is of a blackish color, the loose, and resembling delicate feathers which take the place pendent. The cassowary is a stupid, gluttons

ruits, herbs, and occasionally on us, it is incapable of flight from the * uevelopment of the wings, but it runs t rapidity, and defends itself by means owerful feet. It lives in pairs in the of the Moluccas, of New Guinea, and ls in the Indian archipelago; in some some domesticated. The female lays 8 spotted eggs, on the bare ground, on sits during the night for a month; are of a red color, mixed with he cassowary, though it approaches of common birds in the shortness 1es, and in the want of the stomc between the crop and the gizzard, beidently to the ostrich type, characterized sive size, absence of wings, strength of extremities, flattened breast bone, and ature of the feathers.

[ALIA, a fountain at the foot of Mount us, near the temple of Apollo, at Delphi, is. It was, like the mountain, sacred lo and the Muses, which were therefore astalides. In its sweet waters the Pythia bathe, before delivering the oracles of ; it was regarded as a source of inspirapoets, and had its name from Castalia, ter of Achelous, who, being pursued

, throw herself into the fountain. CALIO, SEBASTIEN, a French theolo-rn in Dauphiny in 1515, died in Basel, 1563. His original name was Châteilbrough the influence of Calvin he was ofessor of classical literature at Geneva. quarrelled with the reformer, who caused ishment in 1544, he repaired to Basel, he taught the Greek language; but as and did not suffice to support his numerily, he was compelled to employ part of e in agricultural labors. He made a anslation of the Bible, the best edition h is in folio, Basel 1578. He defended it of free discussion in a collection of compiled from various sources.

lanets, a species of rattling instrusuch used in Spain and southern France companiment to dancing. They derive ame from the chestnut wood out of he Spanish made them, and are of cone antiquity, having been introduced into from the East. Two small pieces of od, of hollow form, and fitting together halves of a nutshell, are fastened by a each thumb, and the action of the upon them produces the sharp click or hich imparts such a sprightly character national dances of southern Europe. nets are sometimes employed in ballet

CANOS, Francesco Xavier de, duke of a Spanish general, born in Biscay in ed in Madrid, Sept. 24, 1852. He studied of war in Prussia with his brother-in-law, "Reilly. On his return to Spain, Godoy ice of peace, was the supreme ruler, and s's opinions of this disgraceful favoritism

being loudly expressed, he was banished from Madrid. In 1808 he received the command of a division in Andalusia, and on July 19, he encountered the French army under Dupont, at Baylen. The battle commenced at 8 A. M., and lasted till noon, when the French were obliged to surrender; 18,000 were made prisoners of war; the Spaniards lost 1,000 men, the French 2,600. Castalos shortly afterward lost the battle of Tudela. In 1811 he was appointed to the Spanish army, cooperating with Lord Wellington, but, although he manfully supported the British in the battle of Vittoria, he was recalled from the army, and appointed to a civil office. After the restoration he was made captain-general of Catalonia in 1815, an appointment which he resigned, but again accepted in 1824. He was subsequently president of the council of Castile, and after Espartero's fall in 1848, became, for a time, the guardian of Queen Isabella.

CASTBERG, PEDER ATKE, founder of an asylum for deaf mutes at Copenhagen, born in Norway in 1789, died in 1823. After having studied medicine he travelled in Germany, France, and Italy, for the purpose of learning the most approved methods of teaching the deaf and dumb. He published several essays on the subject, and officiated first as professor, and afterward as director of the institution at Copenhagen.

CASTE. See Brahma, and Hindostan.

CASTEGGIO (anc. Clastidium), a Sardinian town in the province of Voghera; pop. 2,800. It was taken by Hannibal during the 2d Punic war, and the battle of Montebello, in which the French, under Lannes, routed the Austrians, was fought in this vicinity, June 9, 1800. Near the town is a remarkable spring, called *Fontana d'Anni-*bale, or Hannibal's spring.

CASTELLAMARE, or Castel-a-Mare, a seaport town in the province of Naples, on the S. E. side of the gulf, 17 m. S. E. from the city of Naples, with which, since 1889, it has been connected by a railway; pop. about 18,000. It is finely situated on the lower alopes of a hill, along a sheltered beach, and commands an extensive view of the bay of Naples from Vesuvius to Misenum. It is defended by 2 forts, and contains a royal palace, a cathedral, 5 churches, several convents, manufactories of linen, silk, and cotton cloth, 12 thermal and mineral springs, and a dock-yard where the large ships of the Neapolitan navy are built. It has acquired celebrity also as a summer resort, in consequence of the salubrity of its air and the beauty of its environs. Castellamare is built upon the site of the ancient Stabiss, which, having been destroyed by Sylla during the civil wars, was afterward occupied principally by villas and pleasure grounds. It was here that the elder Pliny, wishing to approach as near as possible to Vesuvius, during the eruption which overwhelmed Herculaneum and Pompeii, met his death, A. D. 79.
CASTELLANE, ESPRIT VECTOR ELEGARETE

BONIFACE, count, marshal of France, born in Paris, March 21, 1788. He entered the army as a private in 1804; had reached the rank of captain in 1810; distinguished himself in the Russian campaign, and was made colonel. the fall of the empire, he joined the Bourbons; served as brigadier-general during the campaign in Spain; having supported an opposition candidate, he was dismissed in 1830; on the outbreak of the revolution he reentered the army and assisted in the siege of Antwerp; in 1837 he was made a peer, and served a few months in Africa. During the revolution of 1848, he officiated for some time as military commander at Rouen. Under the presidency of Louis Napoleon he was appointed to the military command of Bordeaux in 1849, and to that of Lyons in 1850. He was evidently in the secret of the projected coup d'état of Dec. 2, 1851, having beforehand taken measures to subdue by force, if needed, the republican population of Lyons. As a reward for his services he was made senator and eventually marshal of France

CASTELLI, IGNAZ FRIEDRICH, a popular Viennese dramatist, born May 6, 1781. He was educated for the law, but following his inclina-tion for the drama, he gained access to the orchestras of theatres as a player of the violin. His circumstances compelling him to look out for some means of support, he accepted various subordinate offices, but using his leisure in composing patriotic songs for the Austrian army, he was brought into favorable notice. His songs having given umbrage to Napoleon, he fled to Hungary. In 1815 he accompanied Count Cavriani as secretary to Paris, and afterward he served in the same capacity with Baron Münch von Bellinghausen in Upper Italy. In 1840 he retired with a pension and the office of state librarian, and has since resided at his The author of many ostate near Lilienfeld. poems, popular songs, and miscellaneous writings, he was at various times connected with the press of Vienna, but he is best known by his voluminous productions for the stage. 100 plays, partly adapted from the French, partly original, are attributed to him. In 1848, more than 100,000 copies of his political pamphlets, in favor of the revolution, found

eager purchasers.

CASTI, GIAMBATTISTA, an Italian poet, born in 1721, died in Paris, Feb. 6, 1803. He officiated for some time as professor in the seminary of Montefiascone, and having afterward enlisted the sympathies of an Austrian nobleman, he was presented to Joseph II. and spent several years as unpaid attaché to foreign embassies, ingratiating himself into the favor of Catharine of Russia and of other potentates. At the death of Metastasio, he received the appointment of poet laurente at the court of Vienna, with a salary of \$1,500, but relinquished this office after the death of the emperor Joseph, and spent the last 20 years of his life in Paris. In early life he had written 18 poetical talea, and afterward

added 80 1
in Paris in
ti, which are mail to we lead to the bloom on I
thickly but loose in mon I
thickly but loose in mon I
terical poem, Gli animates per
contrived to exhibit, under an
the blemishes of various poli me a
commenced the poem in Vienna.
tinued it in Florence, and comple
where its original publication
lowed by several editions in
lowed by several e

CASTIGLIONE, one of the new settlements in the province of A setablished by the French go cordance with a decree passed by assembly, Feb. 11, 1851. It is sittlement as shores of the sea near the tow of K the plain of the Metidja, and on 1 Cherchell to Algiers. The plantation been established since that time are made ishing condition, the soil being extrement and peculiarly well adapted for the of tobacco.

CASTIGLIONE, a village of Italy, di Roma, near the lake of Gabii. It the site of the ancient city of Gabii in remains of antiquity. Old v temple of Juno, a Grecian t duct, are among its most must be described in the calabrian vill an earthquake in Oct. 1635.

CASTIGLIONE. I. BALDAMARE statesman and author, born at Ca Mantua, Dec. 6, 1478, died at Toledo Feb. 2, 1529. His career c military service of the duke on better known as a diplomatist, ... city he was intrusted by the with important missions to a England, Louis XII. of Fr. e. He became a favorite u. . pontiff, and was regarded ments of his court. Clemens VII sent him as nuncio to Madrid, I his arrival Rome was sacked by use under the constable Bourbon. It w sible for Castiglione to have foreseen ed this catastrophe, but the repre who insinuated that he had b interests of his country preyou up... hastened his end. He was univerand the emperor, Charles V., in I death, exclaimed: "One of the tri in Christendom is dead." a voluminous writer, but l are models of composition. ... Is I libro del Corteggiane was fire. Aldus in 1528, and a version was po London in 1727. II. CARLO OTTA philologist and antiquary, born is the close of the 18th century. In

zelo Mai, he published an edition of s Gothic translation of St. Paul's Episch Mai had discovered among the paof the Ambrosian library. Most of ertations which enrich the work, the on of which extended through 20 were written by Castiglione. I BENEDETTO, called IL GRECHETTO, se painter and engraver, born in 1 1616, died in Mantua in 1670. He pil of Paggi Ferrari, and, according to horities, of Vandyke, and gained a high n as a historical, landscape, and pornter, and also as an engraver. wever, was animal painting. Many of his are in the museum at Florence, and in vre at Paris; and some have found y to Venice, Milan, Munich, and Dres-An Italian artist and missionary, born ied in Pekin in 1768. He was thorougheted in the art of painting, but joining of the Jesuits, Pekin was assigned as of his labors, and there he passed the part of his life, in favor with several e emperors. He made his art an aco his religious labors, and the emperor ig erected several palaces from denished by him. He is said to have y exerted his influence to protect s from persecution.
GLIONE, LAKE OF, in Tuscany, prov-

GLIONE, LAKE OF, in Tuscany, prov-Grossetto, is about 10 m. long and 3 wide. It was formerly much larger, been reduced to its present size by

It receives the Bruna and other small d communicates with the Mediterraa short channel. Its banks are unnd mostly depopulated. It has been communicate by a canal with the Omie mingling with the waters of this ng supposed to make the lake more

GLIONE DELLE STIVIERE, a town rdy, in the legation of Mantua; pop. It contains several churches and a stle. It is memorable for a victory of ch over the imperial forces, Sept. 9, I for the decisive victory gained herench over the Austrians, Aug. 5, 1796, farshal Augereau acquired the title of lastiglione.

GLIONE FIORENTINO, in the disrezzo, Tuscany, is a town with a pop. with a theological seminary, a bishop's Latin school, and orphan asylum, and lly noted for the rearing of silkworms. LE (Sp. Castilla), an ancient kingdom situated in the centre of the peninsuvided into Old and New Castile.—Old sthe more northerly of the two; area, i. m.; pop. in '1857, about 1,250,000. ery irregular shape, stretching from S. E. It is bounded N. by the bay of by Aragon and Navarre, S. and S. E. Castile, W. and S. W. by Leon. In the antabrian range of the Pyrénées runs

across the province. On the S. it is divided from New Castile by the Sierra de Guadarrama, the Somosierra, and a continuing chain, which, under different names, forms the entire S. and E. boundary. The rivers of Castile are the Duero in part of its course, its affluent the Ucero in the centre, and part of the Ebro on the N. There are numerous minor streams: the Riaza, Piron, Cega, Eresma, Adaja, tributaries of the Duero; the Neva, the Oca, the Tiron, and the Oja, affluents of the Ebro. These rivers are blustering torrents after rains, but in summer many of them are mere water-courses. The climate is dry and hot in the summer, dry and cold in the winter. The plains are almost deserts, whose vegetation affords but a scanty pasturage, and disappears entirely under the summer sun. On the seacoast, and in the mountains, valleys, and hill-slopes, nature is Old Castile includes the much less sterile. provinces of Avila, Burgos, Logrofio, Santander, Soria, and Segovia. The general occupation of the people in the interior is agriculture and grazing. In the towns some inferior manufactures are carried on. Corn and cattle are shipped from Santander.—New Castile contains an area of 80,872 sq. m.; pop. in 1857, about 1,800,000. It is much the larger division of the twe, and from its contiguity to the Moorish kingdom, was the more important. It is bounded on the N., as we have seen, by the Somosierra, Sierra de Guadarrama, &c.; on the S. the lofty and rugged range of the Sierra Morena separates it from Andalusia. The province is intersected by the Sierra Molina range. Minerals abound, and the great quicksilver mine of Almaden is in the province. The Tagus, and various tributaries, Tajuña, Henares, Jarama, Guadarrama and Alberche, Cedron and Algodar, with many small streams, flow through the province, in the plains N. of the Sierra Molina. The plains S. of the Molina are watered by the Guadiana and its affluents. The climate is the same as that of Old Castile. Large crops of wheat are raised, and the mountain slopes afford abundant pasturage. In the S. are the extensive plains of La Mancha. The inhabitants of New Castile are chiefly engaged in agricul-tural and pastoral pursuits. The vine is cultivated, and the fine wine of Val de Peñas comes from the district of that name. Olives and oil, saffron, honey, and hemp are produced in considerable quantities. Woollens, paper, linen, cotton, and silk are manufactured. The province contains Madrid, the capital of Spain, the city of Toledo, with Alcala, Arganda, Aranjuez, Almaden, Almagro, Ciudad Real, Cuenca, Guadalajara, Molina, Requeña, Talavera, and Val de Peñas. New Castile is now divided into the provinces of Ciudad Real (including the greater part of La Mancha), Cuenca, Guadalajara, Madrid, and Toledo.

CASTILLA, RAMON, president of Peru, born at Tarapaca in 1793, served in the Spanish cavalry until 1821, when Gen. San Martin proclaimed Peruvian independence. Castilla, then a lieutenant, joined the liberating army, in which he distinguished himself. He was elected president of Peru in 1845. At the expiration of his term of office, in 1851, he was succeeded by Gen. José Rufino Echénique, but usurped the power in 1855, and was, by a majority of 70,874 votes, reelected to the presi-

dency in Aug. 1858.
CASTILLEJO, CRISTOVAL, a Spanish poet, born at Ciudad Rodrigo toward the close of the 15th century, died in Vienna, June 12, 1556 (according to other authorities in 1596), where his tomb has recently been discovered in the Neukloster Kirche. Attached from the age of 15 to Ferdinand, the younger brother of Charles V., and afterward emperor of Germany, he subsequently officiated as secretary to that prince. He was a zealous champion of the old Spanish poets, and a decided opponent of the new Italian school. His poetry generally re-flects a genial and light-hearted nature. In his imitations of the old masters he exhibits a superior taste, and in his attack upon the imitators of the Italian poets, whom he called Petrarquistas, considerable spirit. One of his most fanciful and characteristic poems is entitled, "Transformation of a Drunkard into a Mosquito." His works were published in Antwerp in 1598, in Madrid in 1600, and were reprinted in Fernandez' "Collection of Spanish Poets," 1792.

CASTILLO, José Maria del, a South American patriot, originally a lawyer, was a member of the assembly of notables convened at Bogota by the Spanish viceroy on the breaking out of the Quito insurrection in 1809. Next he ap-pears as a member of the constituent college which met at Bogota in 1811, and organized the state of Cundinamarca. In 1812 he represented the province of Tunja in the congress at Neyva; in 1813 was commissioned as acting governor of the province; and was appointed joint commissioner with Don J. F. Madrid to treat with Narino. In 1816, when Bogota In 1816, when Bogota again fell into the hands of the Spaniards, he was sent prisoner to Omoa, in Guatemala. Subsequently he became secretary of the treasury in Colombia. In this position he continned till 1828, when, being elected president of the Ocana convention, he was one of those who vacated their seats when the majority refused to confer new powers on Bolivar. For this service the dictator rewarded him (Aug. 1828) by the appointment of president of the council of ministers and of the council of state.

CASTINE, a town in Hancock co., Me., on the E. bank of the Penobscot, 34 m. below Bangor. It derives its name from the baron de Castine, a French nobleman, by whom it was settled in 1667, in company with a French colony, who afterward abandoned it in consequence of border wars with the Indians and English colonists. In 1760 it was settled by the English. The village is beautifully situated on a peninsula, enclosing a spacious harbor always accessible to vessels of the largest class. Its inhabitants are chiefly engaged in ship building and fisheries. Pop. in schools. CASTING. metals is an art tl the earliest periods, and by various i Midiani xxxi. 25, v and lead, are m , MUM pear that methous of 1,450 years before the u the 28th chapter of Job, v have been written at a still tion is made of silver and gol out of the stone. The and casting of the di loys properly includes an : used, as well as of the the various processes auvy is too varied, and required explanation too many figures to admit here of more than a line. It includes the construction of huge require for each one weveral le furnish the number of tons ~ fill its mould, or of the which several are recorded u 50 to 100 tons of hre bell of Moscow, ab tity named. The cor elaborate works of art bronze, and of the mose those of the celebrated Betau of the finer parts of which ne are required to weigh a ; this same process; and so expensive manufacture of for reflecting telescopes, the edof the brass work of Co extensive and greatly | the stove founderies of preservation in metal of the insects and leaves of plants. aration of the great pla mirrors and windows. quire first their appropriate ing the metals, as cupola and revers naces, where large quantities are rethe small brass furna rial. In the larger fur melted are exposed to . burning fuel; in the **Jler** bles or pots are employed, in placed, and thus kept while with the burning matters. which the molten fluid is p metal, sand, or other material is ordinarily the case for a siderable dimensions, 1 which must have the e: de-ired. These are u of metal, and being they demand the IT OE, 67 Flasks or bo: or he materials for

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o the mould, and stoves for drying y the moulds that require this prepamplete the list of the most essential eside workmen's tools, required for a

The cupola furnaces which are comyed for the second fusion of iron, uly so named from a cupola or dome sometimes placed over them to lead e to the chimney. a cylinder of cast or boiler plate iron t upon a brickwork foundation, and u fire brick or refractory sand and eir dimensions vary according as they led for large or small operations. The e made to melt and hold about 12 tons nd several such are placed in large

ts side by side. One-tenth of this эшоге common. At the bottom is an sufficiently large for the extraction of rs, when this is required. It is closed ard-plate, which is provided with an for the flow of the metal, and this is with a lump of moistened clay after has well started, and before the iron to melt. A number of smaller holes up the back for the introduction of the lowest being first used, and then th clay as the blast pipe is moved to hole above, in consequence of the rise melted iron in the furnace. iven by the fan blower. The furnace d at the top with charcoal, coke, or 3, and after the contents are well fired ast, the pig iron, previously selected cial reference to the quality of casting is thrown in with other charges of e pieces should not weigh more than bs. each; scrap iron is mixed with the but care is always taken to so apthat the product shall be of the parength or fluidity desired. A little is added to facilitate the fusion, and ation of the impurities of the iron. re made by second fusion in the cupola and not so commonly directly from the ace, for the reason that qualities are red which are only obtained by mix-

ron from different localities. It is ouliar adaptation of Scotch pig to give ight and fluidity that it is in demand with other cheaper iron. The brittle made from bog ores, which may be so y falling to break into several pieces, demand for fine castings for its great unning into the minutest parts of the nd retaining its faintest impressions. saces, too, cannot always be depended any length of time to produce the lity of metal from the ores; and con-, after preparing the moulds and letting on, it may prove altogether unsuitable articular articles. Nor is the capacity learth large enough to produce at a much iron as is often required for a

moving the heavy castings, or some single article. Still, in many places they are large pots of melted metal from the advantageously employed to some extent, and advantageously employed to some extent, and good castings are very conveniently made by the first fusion.—When sufficient melted iron has collected in the cupola, the hole is opened at the bottom, and it is allowed to flow out into ladles which are carried by one man, or into larger ones, holding 800 or 400 lbs., carried by 8 to 5 men, or into a crane-ladle, in which 5 or 6 tons may be moved to the moulds. For heavy castings, the metal is often run, as from the blast furnace, in a channel in the sand, called a sow, leading to the moulds. These moulds in the case of the blast furnace may be only the pig-bed in which the depressions for the pigs branch off at right angles from the leading mother channel. The metal flowing through and filling these open channels presents at night particularly a most beautiful appearance; as it gushes out from the furnace in a stream of liquid fire, its intensely heated particles meeting the oxygen of the air fly upward in the most brilliant scintillations. But if, unfortunately, the stream comes in contact with sand too moist, violent action then takes place, as the moisture is suddenly converted into steam, and this is decomposed by the heated iron; the whole casting house is filled with the liquid particles thrown in every direction, and sparkling with fearful magnificence as they are consumed in the air. A slight accident sometimes gives rise to one of these catestrophes, which may be attended with the most serious consequences, to workmen and property. But flowing with its ordinary quietness, the metal is covered with wrinkling lines, which move rapidly over its surfaces and gradually become still as it solidifies.—The moulds, which are the next object of interest, may be made in the sand floor of the casting house, which has been filled in with the proper kind of sand for this purpose. This is light, fine, and loamy, and of a yellow color when new, but by the frequent addition of charcoal dust and other materials used in the moulding it gradually becomes dark-colored. It must also be too becomes dark-colored. infusible to melt and adhere to the metal. In this, properly moistened with water, are imbedded the patterns of such articles as may be cast without a cover; and when the impression in the sand is perfectly made, the patterns are carefully taken out, and the imperfections of the sand-mould are skilfully smoothed and dressed over. Close moulds may be made of metal, and for repeating a great number of small castings, as of bullets or cannon balls, this is usually the case. They are commonly made in sand, either of the floor covered over with the upper half of a flask, or else in the sand in-cluded between the 4 sides of this flask or box, which has neither top nor bottom, except a loose board below and another above it. The flash board below and another above it. is divided into 2 similar parts, which fit exactly one upon each other, and are fastened together by pins at the corners. The pattern is made in 2 parts, which accurately fit together to form 584 CASTING

the whole figure; one part is imbedded in the sand of one portion of the flask, and the other so placed in the corresponding portion, that when the 2 are brought in contact and fastened, the exact figure of the object is left in the sand; just as when the 2 hemispheres of a bullet mould are brought together, the spherical cavity is made up between them. The little aperture through which the metal is introduced is made, as in the bullet mould, on the line joining the 2 parts, and is carefully impressed in the sand so that its sides shall bear the running of the metal. It is called the ingate, and serves also as a passage for the escape of the air in the mould. In large castings several of these are required; and in making use of them for pouring in the metal, it is necessary to pay particular attention to the escape of the air, that there is nothing to impede it; for if obstructed and the sand is too dense to allow of its passage through, it may cause the metal to be violently projected from the mould; or if bubbles of air remain shut in the metal, they render it porous and of uncertain strength. The object of the double flask is to admit of the moulding of all sides of a figure. Many objects of rather complicated shape may, by a little ingenuity, be so arranged as to be moulded in it without any projecting part having to pass under the sand, which would of course prevent the pattern being drawn out without breaking down the mould. If the shape is too complex to admit of this, the flask must consist of three pieces or more, so arranged as to admit of the moulding of all the parts without any portion being thus covered. Pieces of wood or brick, or sand properly moulded, are often used as cores to fill parts of the mould which in the casting are to be hollow. Over the face of the mould some light carbonaceous powder is sifted, which has the effect of giving a smooth face to the metal; in gold and silver casting the smoke of pitch or rosin is made to deposit a fine layer of soot for the same purpose. Red brick dust is often used as parting sand, to prevent the 2 parts of the mould from adhering together.—Patterns are the models of the object required, made usually of wood, and in the number of parts necessary for their perfect moulding. The wood should be thoroughly seasoned, and of the kinds least liable to change in form by warping or shrinking. White pine and mahogany, clear of all irregu-larities, are among the best. Their preparation larities, are among the best. is a distinct branch of the joiner's trade, calling for the exercise of no little ingenuity and skill. In consequence of the contraction of iron castings as they cool, the patterns should be correspondingly large. The allowance is made by the use of a contraction rule, in which the divisions are 1 of an inch in a foot, or 18, longer than those they represent, this being the usual proportion of shrinkage. Brass shrinks 3 times as much as iron. The pattern designer is obliged always to have reference to the effect of unequal rates of cooling ic the large and small parts of the castings, and

injury that might arise fr ing set while the l ed from their s these the casti Migus contraction what yet lvi the fact that the counterparts of the pauce one should be proporti other; and as the pine the weight of the casting should v pattern. Wood putterns, of large size, are often built fitted together and glued. castings, as those for ste ders, which may be fr ter, a hollow core of ween or of so constructed as to fit in the caving leaving the space for the the wall of this cavity. mould a circular channel of the metal, and a large nu from this down into the many air-holes are also the air. The chant branches coming from com flow of metal in each one o. by a workman who uses his temporary dam. At the v shovels," the currents flow m soon filled. The hollow core. within to withstand the pres metal, must, as soon as t mencement of cooling, be br restraint be laid upon the To accomplish this, the works the highly heated cavity, by working a minute or so at a is soon removed. The are allowed to cool hardness; the former well and the latter by rapid com chilled iron, is iron cast in c The castings when remov dressed by breaking off the m in the ingates, and their the crust of sand which cogenious method of practised for some tune cularly in Baltimore. The m a cast-iron tubular case, which outer mould. Being made to its axis, the fluid iron wi and assumes the tubular au corresponding to the quantity duced.—It may be i methods employed for the delicate figures of i plants, and also of large or a leaf of a plant, d a cast figure, is made we tern. It is fixed by th small box, and a wire nect it with the outs is plastered over it, uy

ingenious expedients are adm

to the box and swinging this about.
rials of the same nature are added
way till the box is filled. It is then
my dried, the wires are withdrawn, and
lid is baked, so as to reduce the object
These are then blown out, and the

These are then blown out, and the ready to be filled. An improved proo mould the object in wax, and having d this with plaster of Paris, subject the beat sufficient to melt the wax and to be absorbed into the plaster. Cast f brass designed for printing the impresferns and such objects are prepared by nious process of Dr. Branson, of Shefngland, as follows: A clean sheet of ercha, softened by boiling, is laid flat smooth plate of metal, and dusted over onze powder. On this is laid the frond and it is then covered with another plate and subjected to a moderate preshen the gutta percha is cold, it is found mpressed with a perfect copy of the d from this a cast in brass is taken, when burnished, is ready for the printprints thus obtained, if the ink be mixed to the right tint, are said to be distinguishable from the plant itself.ng statues, a hole is dug in the sand, some resemblance to the intended fighe inside of this pit is lined with brick , and a small furnace is sunk in the bot-ver this furnace is placed an iron gratch supports the mould. This is formed ore, the wax, and the outer shell. The sass or core of clay and rough plaster its the general contour of the form re-

It is strengthened by iron bars on the md on the outside is covered with wax, kness of which corresponds with the I thickness of the metal. This, however, times formed in separate pieces upon and brought to the core in sections. of tubular passages from the wax to the are left, to serve as ingates and for the of air. An outer coating is next laid wax, formed of layers of different coms. The first is of clay and old white crunely powdered, and mixed with water; the consistency of paint. This is apor 8 times. For the 2d layer, the same tion, to which is added horse dung and used, and for the 3d the dung and earth When this shell is completed, the whole cled with bands of iron. A moderate en made in the furnace, for the purpose ig it, as well as for melting the wax, uns out through pipes arranged for the

These are immediately closed with When this is done, the square pit is all around the mould with loose bricks, fire is increased in order that the mould thoroughly heated and dried. This complished, the fire is extinguished, and lee left to cool, when the bricks are reand their place filled with earth. The now melted in a large furnace con-

structed by the side of the pit. A small tube is laid for conveying it into a large basin over the mould, into the bottom of which all the large branches of the spouts or casts are inserted, by which it is led into the various parts of the mould. These channels are closed with long iron rods, which are withdrawn only when the vessel is full enough of the metal for it to run into all of them at the same time. The whole of the furnace is then opened, and the mould is instantly filled. The casting is now complete, the mould and earth are removed, the core and the iron bars, except such as are required to strengthen the figure, are taken out through an aperture left in the brass for that purpose, which is afterward soldered, and the figure is ready for the finishing touches of the sculptor .-The value of the exports of castings of iron, manufactured in the United States, during the year ending June 80, 1857, was: to Canada, \$133,946; other British American possessions, \$75,172; British Australia, \$37,562; Cuba, \$12,368; England, \$8,981; British Guiana, \$5,286; Chili, \$5,167; other countries, \$11,483; total \$289,965.—See also BELL, CANNON, and FOUNDERY.

CASTLE, a fortification of the middle ages. The word is derived from the Latin castellum, although the castellum of the classic writers had little or nothing in common with the superb castellated edifices of Norman and Gothic architecture. The castellum of the Romans seems, at times, to have signified something of the nature of a system of detached forts or bastions, connected or unconnected with curtains, made sometimes of timber, sometimes of stone, and not unfrequently of a combination of the 2 materials; the stone work being compacted with heavy beams of timber, which were supposed to increase the strength of the edifice, as they were less liable to be brought down by the vibratory motion given to the walls by the re-peated blows of the battering ram. At other times, the word castellum was used by the Romans to signify a fortified town, and that more frequently in the provinces, particularly in Gaul, than elsewhere; most of the French towns which have now the prefix of château, as Châteaudun, Château Thierry, and the like, being built on the site of ancient Roman castella; just as the English villages and towns having the suffix of cester, caster, or chester, as Doncaster, Gloucester, Colchester, are the looum tenentes of ancient encampments, castra. Lastly, castellum was often used by the Romans as a term for the large buildings of masonry used as fountains, or rather as the distributing reservoirs of their aqueducts, many of which, in fact, had very nearly the character of the simplest form of the small castle of the middle ages, some of which are still to be seen in Scotland, consisting merely of a square pile of masonry, having 4 flat curtains, with 4 projecting round or square towers flanking the curtains, 1 at each corner of the building, and rising considerably above the battlements of the main

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pile, so as to command the platforms, if carried by escalade. Roman towers are almost invariably made of brick, joined by cement or mortar, which with the lapse of time became harder than the brick it compacted, or than stone itself. When they used stone, it seems to have been in irregular works, of great extent, such as the vallum of Antoninus, or Severus, partaking of the nature of earthworks rather than of regular defences of masonry. The Saxon castles in general were of very inferior architecture and design; they had rarely the advantage of elevated position, or of commanding height in themselves. In fact, the Saxons were not, it would seem, at any time a castle-building race, nor did they affect lofty sites or eminences for their dwellings or de-fences. Their favorite localities for building purposes, so far as can be judged from the few old Saxon sites, such as Temple-Newsham and a few others in the north of England, and in the fen counties of Cambridge, Huntingdon, and Lincolnshire, were nearly the same as those affected by the monks after the conquest, many of whom were of the ancient Anglo-Saxon race -namely, low, rich meadow lands, suitable for the rearing and fattening of the flocks and herds, in which they took so much pride and pleasure, and in which so large a portion of their wealth consisted, lying by the margin of still sheets of water, containing carp and tench as fat as their own oxen, ever haunted by innumerable flocks of wild fowl, and over-shad-owed by dark woodlands, as old as the days of the heptarchy, or perhaps as those of Cæsar. In such places, they would build their houses of strength (one could hardly call them castles), long, low, flat-roofed, rectangular buildings, with no attempt at ornament, and little at defence, beyond the smallness of the narrow round topped windows and low-browed doorways, with here and there a low, stubborn, round tower at an angle, sometimes a most drawn round the base of the building itself, and defended by an exterior palisade of timber, but without any system of flanking walls or defences, one defending and commanding the other, as was the case in the elaborate fortalices afterward erected everywhere throughout the land by the victorious Normans for the protection of their scanty numbers. It would seem, in fact, that neither during the Roman occupation of Britannia, nor afterward, while the Christianized and Latinized Cambro-Britons held it, nor yet after that, in the Anglo-Saxon times, while there were Anglo-Saxons in Eugland, were there any places of strength in the kingdom. A single battle, won by a few charges of mail-clad horsestrength in the kingdom. men, laid the whole kingdom prostrate at the feet of William the Norman, who portioned out the realm among his landless followers. Everywhere, instantly after the subjugation of the land, on every estate arose the tall and castellated dwellings in which,—from that day downward until the conclusion of the wars

of the Roses and the acc when a new style of architect milder state of society and a co mestic warfare, succeeded th type,-resided with their f the din of war, the landed a nobles of the land. Of every variety from the small single keep, or tow on some bold summit, to the vast h tles, such as those of Framling or Kenilworth, or Leicester, coveri ground within the precincts of th walls and deep girdling mosts, they similar forms, one common syst whether on elevated ground or a scenery; and, unless captured by sur sudden onslaught, or betrayed by th of some one within the walls, co many days, resist a feudal army; the itiliery of which, consisting only of each and machinery for casting stones, could nothing against stone walls of 10 or 12 f and machinery for casting thickness, and 100 feet or more in he every shot hole, crenelle and bartise arrows and cross-bow bolts fell l the exposed persons of the assails mattered little to the defenders of whether or no, in the absence of arti quate to reduce it, the edifice mi not be commanded by eminence height, provided only that they we in near arrow shot.—The system was a series of curtains of gre height, forming the circuit of the d large square flanking towers at sh serving as bastions to enfilade the c close at their base a wide, deep mor crossed by means of a drawbrid to that drawbridge defended, side, by what was called a barb what we should now call a brid was in fact neither more nor castle of inferior height to the interior open to its shot on the inner side t moat, so as to be untenable against its yet strong with curtains, towers, I sometimes, again, with a narrow fosse and esplanade, and an exteri of wood, called the barriers, in the which and their defence were of some of the most desperate and of arms recorded by the chronic strels of the middle ages, larger and more powerful for In 1 del fortr as that of Framlingham in Su les Tours and Loches in France, others in England, France, and the L tries, within the exterior precincts a there were a 2d and 8d wet ditch. a wall, each loftier than that with manding it from the base to the all these arranged in such a way ti sailants, having mastered the lat g tered the 1st precinct, would a compelled to make a flank move half the circumference of the pi



high inner wall and an impassable nder shot from the 2d wall, before ; the 2d bridge and gateway. Add to t, the 2d wall gained, a similar task re-before carrying the 8d; and when the s should be all forced, one by one, the the whole, in the shape of the keep or a pile of masonry almost solid, and of almost impregnable, consisting princi-a huge square tower of 200 feet or height, with a flanking turret at each not a window larger than a shot hole e 1 of the longest ladder, and but one ou on the 8d floor above the ground. w only by an exterior stair of stone, " so where one but goes abreast," exposed long-bow shafts, and cross-bow bolts, ds of melted pitch and scalding oil from lements and bartizans, frowned its der laughed its scorn on all beholders. e the castles of the middle ages, as they thousands, still majestic in their ruins, ne pleasant scenery of the rich corn id pastures and green woods of merry l; amid the vineyards and fertile plains ice; amid the marshy pastures of the untries; along the steeps of the Rhine, es of the Alps, of the Black forest, of ol, of the Apennines, and of the mounges looking down on the Danube, relics dmarks of a wild and iron age, the of men as wild and as iron as the epoch

h they flourished.

ILE CAREY, a market town and parish restshire, England, on the Great Westroad, 129½ m. from London. It commanor-house in which Charles II. took fter the battle of Worcester.

CLE CONNEL, or STRADBALLY, a town ish of Munster, Ireland; pop. of the 106. It is beautifully situated on the a, near the falls of Doonass, and is much to in summer by the inhabitants of k for its chalybeate springs. Its castle, the residence of the O'Briens, kings of was destroyed during the siege of

ILE DERMOT, or TRISTLEDERMOT, an town and parish of Leinster, Ireland; the town, 1,516. It is situated on the affluent of the Barrow, and was forher residence of the Dermots, kings of: It contains a great number of interntiquities, among which are the ruins ge cathedral, a church built by the first settlers, a Franciscan monastery, a Norch, a square tower supposed to have ected by the knights templars, the re-of a priory, a castle, and in the church-veral curious crosses and a round tower. ILEREAGH, ROBERT HENEX STEW-scount (second marquis of London-April 8, 1821), a British statesman, the family seat of Mount Stewart, in nty of Down, Ireland, June 18, 1769, his own hand at his seat of North-

Cray Place, county of Kent, England, Aug. 12, 1822. He attended the grammar-school at Armagh, and completed his education at Cambridge. In 1789 he offered himself as a candidate for the representation of the county of Down in the Irish house of commons, and was elected after a sharp contest, which is said to have cost his family over £25,000. In 1794 he was sent to the British house of commons, as a member for the borough of Tregony. After the dissolution of that house in May, 1796, he was again returned to the British parliament, which met in September of the same year, a member for Orford; but relinquishing his seat in July, 1797, he was reelected to the Irish parliament, as representative of the county of Down, and appointed keeper of the privy seal for Ireland. In the beginning of 1798, he became chief secretary to the lord lieutenant, and an Irish privy councillor. The rebellion which invited and accompanied the landing of Gen. Humbert in 1798, was crushed by Castlereagh, although there is reason to suppose that he was not a party to the remorseless cruelties practised by the Protestants, with the odium of which his name has been loaded. It was mainly through his instrumentality, that the act of union was passed. When this measure was consummated, Lord Castlereagh quitted the Irish government, execrated by the majority of his countrymen. The Orange or Protestant party, however, to which, both by personal opinions and by family connections, and residence in the north of Ireland, he belonged, looked upon him with far different sentiments; and their respect for his stanch adherence, at any cost, to the doctrine of Protestant supremacy in Ireland, was undoubtedly shared at that time by the majority of Englishmen. He represented his native county in the first imperial parliament, which assembled in Feb. 1801, and also in the second, which con-vened in September of the ensuing year. In the beginning of 1802 he was appointed a privy councillor of Great Britain, and president of the board of control. He retained that office after the retirement of Mr. Pitt, and throughout the Addington administration. In July, 1805, after Mr. Pitt's return to power, Lord Castlereagh joined his cabinet as secretary at war and for the colonies. Having lost his seat for Down, he was returned in 1806 for Boroughbridge; and relinquishing his office after Mr. Pitt's death, he was returned for the following parliament, which met in Dec. 1806, for the borough of Plympton Earle. He now went into opposition against Fox and Grenville, and attacked their peace policy. In 1807, upon the forma-tion of the Portland cabinet, he again became secretary at war, and was reelected by his last constituency for the parliament which met in May of that year. While a member of this administration, he incurred the responsibility of the ill-advised Walcheren expedition, in reference to which Mr. Canning, his colleague and secretary for foreign affairs, assailed Lord Castlereagh with such warmth of personality, that a duel ensued between them in 1809, and both retired from office. Lord Castlereagh soon returned to the ministry, and assumed Mr. Canning's post, in which he gained a position so commanding, that on Mr. Perceval's death, in 1812, he had the confidence of the tory party, and was re-garded as the ministerial leader in the house of commons. In Nov. 1812, he was once more returned for the county of Down, retaining that seat in the next 2 parliaments, which met in Aug. 1818, and in April, 1820. In 1814, as British plenipotentiary, he took part in the conferences of Chatillon, and was influential in persuading the allies not to lay down their arms, unless Napoleon agreed to limit France to the boundary of 1792. This Napoleon refused to do; and that great campaign was begun which ended in the capitulation of Paris, and the abdication of Napoleon. At first Lord Castle-reagh's unappeasable hatred of Napoleon, or perhaps his political foresight, would not permit him to concur, in behalf of England, in the measure by which Napoleon was permitted to retain the title of emperor, and retire to Elba. After the treaty was signed, however, he reluctantly acceded to it. He took part in the congress of Vienna, and in the discussions which followed during the Hundred Days. Subsequently he supported George IV. in his schemes for getting rid of Queen Caroline, and was the author of the harsh measures for the repression of discontent caused by general dis-tress and dearness of provisions. The struggles of the constitutionalists in Spain and Portugal called for active interference on the part of the holy alliance, and Lord Castlereagh was on the point of joining the congress of Verona, when he fell into a state of melancholy, in which he committed suicide by opening the carotid artery with a penknife. The coroner's jury which investigated the case declared the act to have been committed in a state of lunacy. Lord Castlereagh has been assailed with unsparing acrimony. As an orator, he was below mediocrity. But he had sound common sense, great moral courage, and unshaken firmness; and if he could not express his intentions fluently, he could march straight forward to their accomplishment. His correspondence was edited by his brother, the third marquis, in 1850.

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CASTLETON, a post village and township of Rutland co., Vt., pop. 3,016, situated on Castleton river, at the intersection of the Rutland and Washington, and the Saratoga and Ca-tleton railroads, which unite here with the Vermont and Canada lines. It is the seat of Castleton medical college, founded in 1818, and connected with Middlebury college.

CASTLETON, a village of Derbyshire, England, situated at the foot of a rugged eminence, on which stands Peak castle, an ancient stronghold erected by William Peveril, natural son of the conqueror, and celebrated in Sir Walter Scott's novel of "Peveril of the Peak." The

inhabitants of the villi in mining. Some, however, the reaction of the manufacture of outlies from spar, and from acting and the strangers visiting the many naturalities of the neighborhood. Among remarkable is the Peak cavern, or Deviconsisting of a series of subterraneous bers, which can only be explored by to The whole depth of the excavation from the opening is 2.300 feet.

from the opening is 2,300 feet.

CASTLETOWN, the capital of
Man, England, on a bay of the same
the S. extremity of the island; pop.
2,479. It contains King William's colleg
ed in 1830, and Castle Rushen, said to h
built by a Danish prince in 960. It is

of the governor and of the Manx court CASTOR, a substance somewhat remusk, secreted by the beaver. It is of sistency of honey, has a strong, per fetid, and volatile odor, which is local substance is dried and hardened. It is some extent in medicine as an antisy and stimulant, and is thought to act a upon the nervous system. It was kn recommended by Pliny and Dioscorid has not a high reputation among practitioners; and as it is often largely ated, there will be little cause for r its use be discontinued. The article of the best is obtained from Russia. The can beaver produces an inferior qualit zoic acid is recognized among the sorganic compounds of which this seconsists.

CASTOR OIL, a mild purgative from the nuts of the castor oil plant, nus communis, or palma Christi. R an apetalous genus of plants be natural order euphorbiacea. It was a a native of Asia, and was used by the antiquity, but is now naturalized in America, and the south of Europe. I acters of this genus are: Leaves alters ulate, palmate, glands at apex of petiole ers in terminal panicles; monœcious, i calyx 3-5 parted, valvate; filaments a polyadelphous; style short, stigmas tite, feathery; ovary globose, 3 celled ovule in each cell; fruit capsular, ti The tribe is formed of trees, shrubs, becoming arborescent. The R. commus ma Christi has peltate palmate leaves, coolated serrated lobes; an herbace stem, of a purplish red color upwaru, ers in long green and glaucous spikes, from the divisions of the branches, t from the lower part of the spike, the from the upper. The capsules are pri varies in size in different countries. parts of Europe it is not more than 3 high, but in India it is a tree, and in attains fair dimensions. The native of R. communis is unknown; it is couje be Barbary. The castor oil plant was!

ent times, both to the Egyptians and zks. The latter called it croton, a name ed by modern botanists on another geeuphorbiaceous plants, one species of rields the strongly purgative oil called tiglii or croton oil. Numerous varieties mmunis exist in various localities, differonly in color and the peculiar condition stem, but in stature and duration. In countries it is ligneous and perennial; in The engions, annual and herbaceous. possesses active properties, but the oil ou from the seeds is alone employed in The ancients administered the seeds but their variable action, producing someven fatal effects, led to their disuse. The 'comparatively recent introduction. sere formerly known in the shops as semini or cataputia majoris. They are about of a small bean, obtuse at both ends, the being smooth, shining, and beautifully d. The skin consists of 8 tunics; the sor kernel consists of an oily albumen embryo, the cotyledons of which are anous or foliaceous. The outer shell is of taste. According to Dr. Dierbach, ive principle resides in the inner coat assert that the purgative principle resides ryo. Mérat and De Lens have shown, onnaire des sciences médicales, t. xlix., e active principle is diffused through the substance of the kernel, though possibly ore intensity in the embryo.—The qualastor oil depends on the greater or less ty of the seeds; the peculiar variety of nt from which they have been obtained; accidental or intentional admixture of eeds, before the process of extraction. India and America much heat was forployed in the process, and this was into the quality of the oil. During the on of heat a volatile principle escaped was so irritating that the workmen had ct their faces by masks. The French is the best. The fresh seeds are bruised, n put into a cold press. The oil is exand allowed to stand some time, to peralbumen, mucilage, and other matters ide; or it is filtered, to separate them idly. The produce is equal to about seeds employed, and the oil possesses atural qualities. Both the French and oils are much milder than oil procured opical countries. Oil of good quality kish fluid of a very pale yellow color, being almost limpid, with a slightly w odor and an oily taste, mild at first, g a feeling at the back of the throat, ness intense, according to the freshness pecimen. Bad oil is rancid and disaa.—When pure, it is a mild aperient or , operating without griping or other inence, and commonly very soon after it It is deemed the most proper laxative y inflammatory states of the abdomen, leys, or the bladder. It is also deemed

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a most eligible medicine in piles and other affections of the rectum. Alone or with turpentine, it is very efficacious in expelling worms. The chief objection to its use is the repulsive taste. From 15 to 20 drops of pure liquor potasses will usually saponify half an ounce of castor oil, to which I ounce of distilled water and a drachm of spirit of pimento or of nutmeg may be added, to make an emulsion, which is equally effective and not unpleasant to the taste. Castor oil is much used in the East, France, Italy, and other countries, for burning, as well as for medicinal purposes.—The manufacture of castor oil is actively carried on in the U.S., especially at St. Louis, the beans being produced in southern Il-linois. The ground is prepared as for other crops, and the seeds are planted much in the manne of those of Indian corn, with the exception that there is but one seed put into each hill, and that at every 4th row a space is left to admit of the passage of a team for the purpose of gathering the crop. The ripening commences in August, about 20 bushels from an acre of ground is considered a fair yield. The ordinary hydraulis press was first applied to the manufacture by Mr. Henry T. Blow, about 1847. Mr. Blow's manufactory was the most extensive in the U. S., but was destroyed by fire in the early part of 1856. A new press introduced by Mr. Latourette and patented Oct. 28, 1851, has increased the product of oil from the bean 871 per cent. over the ordinary hydraulic press, and brought the manufacture in many other respects to a higher degree of perfection. On an average one of these presses is estimated to work 150,000 bushels of beans per annum, producing 400,000 gallons of oil. The produce in 4 years, 1850 to 1858, averaged an annual yield of about 286,000 gallons, most of which was taken for home consumption.—The following table presents the movement of the American trade with foreign countries in castor oil during the year ending June 80, 1857.

Imperts. From England. British East Indies France on the Atlantic Porto Bloo	197 119 641 818
" China	
Please into which imported. Boston and Charlestown New York	197,996 879,896 80,911 22,967 80 101
Total	167,964 8109,608
Experts. Canada . Other British N. Am. possessions British West Indies	Callena Value 2,041 32,540 400 335 40 43
Total	9,481 90,988
Vermont	1,501 , 1,501
Total	

Greek mythology. According to Homer, they were sons of Tyndareus and Leda, and brothers of Helen and Clytemnestra, and hence are often called the Tyndarids. Castor excelled in taming horses, and Pollux in the game of boxing. Though buried, they were taken from the earth before the siege of Troy, became immortal and honored as gods, and sometimes appeared among men. The legend was complicated by subsequent poets. According to some, the Dioscuri were sons of Leda and of Jupiter disguised as a quent poets. swan or a star; according to others, Pollux only had this divine origin and the privilege of immortality. The place of their birth was variously said to be Amyclæ, Mount Taygetus, and the island of Pephnos. They are fabled to have attacked and ravaged Attica, and to have brought back their sister Helen who had been stolen away by Theseus. They took part in the Caly-donian boar hunt, and accompanied the expedition of the Argonauts, during which Pollux vanquished with the cæstus the giant Amycus, king of the Bebryces, and founded the city of Dioscurias in Colchis. Associated with Idas and Lynceus, sons of Aphareus, they plundered Arcadia, but in a quarrel which arose concerning the division of the spoil, Castor, the mortal, perished by the hands of Lynceus, who in his turn fell under the blows of Pollux, while Idas was struck with a thunderbolt by Jupiter. cording to another tradition Castor was slain in a war between Athens and Lacedemon. Jupiter permitted Pollux to pass alternately one day with his brother on Olympus and another on the carth. The worship of these heroic brothers was established by the Acheans, adopted by the Dorians, and spread throughout Greece, Italy, and Sicily. They were the tutelary gods of hospitality, presided over gymnastic exercises, and were eminently the mighty helpers of man. They calmed tempests, appearing as light flames on the tips of the masts. They sometimes appeared in battle, riding on magnificent white steeds at the head of the army. By their assistance the Romans believed themselves to have gained the battle of Lake Regillus. Placed among the stars they became the constellation Gemini. In works of art, they are usually represented as young horsemen in white attire, with a purple robe, armed with the lance, and wearing a helmet crowned with stars. Rome the men swore by the temple of Pollux, Ædepol, and the women by that of Castor, Accestor. There was an ancient temple consecrated to them in the Forum, around which the Equites marched in magnificent procession every year on July 15.

CASTOR RIVER rises in St. Francis co., Mo., flows S., communicates by several arms with a group of small lakes in Stoddard co., and afterward unites with the Whitewater river. The stream thus formed, which is sometimes called the Castor, but more frequently the Whitewater, flows through a low swampy region, in which most of the streams spread themselves over a large surface and form extensive marshes or

lakes. It receives the outlet of Lake Penina and finally discharges itself into Big lake. CASTREN, MATTHEW ALEXANDER, a Finish

philologist, born Dec. 2, 1813, at Terrola Reland, died May 7, 1852, in Helsington. He devoted himself to collecting the measurest of the genius of Finland, scattered through various tribes, and as a prej na be took to travel on foot in 1850 unr Lapland. Aided by government, us po his investigations through Norwegian and sian Finland, and even as far of Europe and Siberia. He also v to make himself more familiar water guage, with a view to the translation Swedish of the celebrated popular no "Kalevala." He was appointed ethnographer to the academy of St. and with the aid of the university or fors, he extended his researches through Siberia, from the frontiers of China to shores of the Arctic ocean. With f stitution and delicate health, he acc extraordinary labors, and sent home, dition to the documents connected was own studies, reports and letters of Many of these were published in and Swedish periodicals of the day. was honored on his return to in 1851, a year before his death, want of first professor of the Finnish literature at the university of The literary society of Finland and of St. Petersburg caused his writings to be lished after his death, the latter be ing Mr. Schiefner as editor of t lished in St. Petersburg in Geri 1856, while Finnish editions were at at Helsingfors in 1852, 1853, and German edition of part of them in Leipsic. His Samoied grammar ary were published in St. Petersoure Schiefner in 1854 and 1855, and his dictionary in 1857. A biographical Castren, by Mr. Borg, appeared at I in 1853, and in the same city a mo been dedicated to his memory.

CASTRES, a flourishing town of France, pop. 14,144, in the department of Tarn, 25 m. S. E. of Albi, lying in a fertile valley on both sides of the river Agout, which is here crossed by 2 stone bridges. It is the seat of a Protestation consistory, having been one of the first towns to embrace the doctrines of Calvin. It has manifectures of silk, woollen, and cotton goods. Cottes was founded by the Franks, A. D. 647; aftered much in the religious wars of the 16th century; its fortifications were destroyed to Hours XIII. in 1619. It was long the residence of Henry IV. during his religious wars.

CASTRO, INES DE, wife of Pedro of Petugal, born in the first part of the 14th cetury, assassinated in 1855. She was a design of Don Pedro Fernandez de Castro, a descendant from the royal house of Castile, and a mail of honor to Constantia, 1st wife of Pedro.

itia's death in 1344, Pedro, fascinated extraordinary beauty of Ines, contracted

riage with her, which, when a anterward it was disclosed to his allonso IV., met a violent opposition part of this king, who feared the influercised by one of the brothers of Incs.

prehension that the children of Ines terfere with the claims to the throne s children by his first wife, also preyed e mind of Alfonso. Her death was reipon, and while Pedro was away from a hunting excursion, the king proceeded nbra with the intention of murdering at when he arrived there and beheld autiful woman, surrounded with her a, and imploring his mercy, he was ne with pity. Eventually, however, led to the evil suggestions of his advis1 Ines was assassinated. When Pedro ome and found, instead of the lovely e, the bleeding corpse of his wife, his nd wrath knew no bounds, and his and the archbishop of Braga sucwith the greatest difficulty in reconim with the king, and in appeasing for his thirst for vengeance. After the death in 1357, this thirst, however, ut with increased fury. Only one of assins of Ines, Diego Lopez Pacheco, ed in escaping to Aragon. The other 2 loelho and Alvaro Gonsalvez, who had protection at the court of Pedro the i Castile, were surrendered in exchange e Castilian prisoners to Pedro of Portu-10, after subjecting them to the most rtures, had their hearts torn out of their their bodies burnt, and the ashes scatthe winds. His regard for the memory vife did not rest here. He convened a council at Castanheda, when, in the e of the nobility and the court of d, he produced the papal documents and lence of the archbishop of Guarda, the ng priest, in order to establish an irre-proof of the legitimacy of his marriage The proceedings of this council iblished all over the kingdom, and the ep of Pedro was to have the remains of humed. Her corpse was put upon the clothed with the insignia of royalty, e after another, the dignitaries of the n approached to kiss the hem of the rment. Ines was afterward buried with omp at Alcobaça, the king, the bishops, is and officers of Portugal following the procession on foot. The road from a to Alcobaça over which it passed, ex-over 60 miles, was literally covered with pulation, who stood on both sides with in their hands. A superb monument dicated to her at Alcobaça. Gomes ugal, the count of Soden in Germany, a Holland, have founded tragedies upon idents of Ines de Castro's life. But the markable tribute paid to her memory is

that of the great Portuguese poet Camoans in the "Lusiad."

CASTRO DEL BIO, a Spanish town on the Guadajoz province of Cordova; pop. in 1852, 8,851. The ancient part of the town is surrounded by a dilapidated wall with towers. The entrance is by a single gate, once defended by an Arab castle, now in ruins. The modern portion is outside the walls, and is well and handsomely built. There are 2 colleges and several schools, convents, chapels, hospitals, and factories of various kinds. The town has a trade

in wheat, cattle, oil, honey, &c.
CASTRO URDIALES, or CASTROURDIALES, a seaport town of Spain, on the bay of Biscay, in the province of Santander; pop. in 1852, 3,810. It was sacked by the French in 1811, but has since been neatly rebuilt. A ruined convent of the templars is in the vicinity. It has a safe

harbor, and extensive fisheries. CASTRO VIREYNA, a Peruvian province, in the department of Ayacucho; pop. about 15,000. The capital, bearing the same name with the province, is situated on the W. slope of the Ande the head of a small stream falling into the Pacific. The climate is healthy, though cold; the pasturage good; fine sheep are reared, and a beautiful quality of wool, from the vicuita, is produced here

CASTROGIOVANNI, or CASTRO GIOVANIII, (anc. Enna), a city of Sicily, in the district of Oal tanisetta, pop. about 12,000, on a plateau in the centre of the island, 4,000 feet above the sea. The climate is healthy, the soil fertile, and water abundant. The old feudal fortress of Enna is the chief edifice. It was the fabled birthplace of Ceres, and the site of her most famous temple. About 5 m. distant is the lake of Perguss, where Proserpine, according to the poets, was carried off by Pluto. During the first servile war the insurgent slaves made Enna their head-quarters.

CASTRUM DOLORIS, or castle of mourning, called in French chapelle ardente, is the room, whether it be a chamber, chapel, or church, in which a catafalco is erected at the burial of a prince or other distinguished person-age. This room is hung with black, adorned with the arms and the likeness of the deceased, and lighted with numerous wax tapers. In the middle is the catafalco, or lofty tomb of state, upon which the coffin, usually empty, is placed. This is covered with memorials of the rank and dignity of the departed, with his ineignia of office and orders, and with his sword and epaulets. Above this hangs a canopy, and high chandeliers stand about it.

CASVEEN, CASSIE, KASSIE, KASSIE, or CASSEEN, a fortified city of Persia, in the prevince of Irak-Ajemee, 90 m. N. W. of Teheran, lat. 86° 12' N., long. 49° 58' E.; pop. estimated at 60,000. It is surrounded by brick walls, with towers, and is said to exceed Teheran in output. ran in extent; but whatever grandeur it may have once possessed has been destroyed by repeated earthquakes. Whole streets lie in

ruins, and most of the ancient buildings have been overthrown. The palace, though much dilapidated, is still occupied by the governor. A mosque with a large dome, bazaars, schools, and baths are the other principal buildings. The chief manufactures are velvets, brocades, a coarse cotton cloth called kerbas, carpets, sword-blades, and wine. Grapes and nuts are pro-duced abundantly, and of good quality. Casveen is also an entrepot for the silks of Ghilan and Shirvan destined for Bagdad and India, and for rice from the Caspian provinces. The surrounding plain was formerly one of the most productive districts of Persia, its natural fertility being greatly enhanced by a vast system of irrigating canals, most of which are now choked up, except in the immediate vicinity of the city. Casveen was founded about the middle of the 4th century, and under the Suffide dynasty became the capital of the kingdom. The removal of the seat of government to Ispahan checked its prosperity, though it still has much commercial importance.

CASWELL, a co. in the N. part of N. C., bordering on Va.; area 400 sq. m.; pop. 15,269, of whom 7,770 are slaves. It is intersected by Hycootee river and County Line creek, affluents of Dan river. The surface is undulating, and the soil fertile. The productions in 1850 were 75,243 bushels of wheat, 111,891 of rye and oats, 417,509 of Indian corn, 2,282,939 lbs. of tobacco. There were 24 corn and flour mills, 4 saw mills, 1 iron foundery, 1 cotton factory, 9 tobacco manufactories, 26 churches, and 1 newspaper. It was organized in 1777, and named in honor of Richard Caswell, the first

governor of the state under the constitution.
Capital, Yancey.
CASWELL, RICHARD, first governor of North Carolina, and brigadier-general in the army of the American revolution, born in Md., Aug. 3, 1729, died Nov. 10, 1789. In 1746 he removed to N. C., where, in 1754, he became a member of the colonial assembly, in which he continued to hold a seat till 1771. He was then chosen speaker of the house of commons, and colonel of the county militia, and at the outbreak of the revolution identified himself with the patriots. He soon after became treasurer of the state. In 1776, in command of a regiment of minute men, he defeated the loyalists at Moore's creek, and for this service was appointed brigadier-general. For 3 years he was president of the provincial congress which framed the state constitution, under which he was elected the first governor. He was engaged in the disastrous battle of Camden in 1780, became comptroller-general of the state in 1782, and was again elected governor in 1784, to which office he was twice reclected. In 1787 he was a delegate to the convention assembled at Philadelphia for the formation of a federal constitution; in 1789 he was speaker of the state senate, and he was subsequently one of the convention by which the federal constitution was ratified in N. C. He

was presiding in the senate when he w

with paralysis, which proved fatal.

CAT (felis, Linn.). The Linnman g
comprises about 50 species of ca mammalia, the characters of which a assimilated, and at the same time wid ent from other genera. It is charac 6 incisor teeth above and below; teeth in each jaw, powerful and for tearing; molar or cheek teeth, 4 in jaw and 3 in the lower, thin, poi wedge-shaped, formed for cutting. is large, round, and wide; the eyes pupil often oblong; the tongue h horny papilles, directed backward. are formed for walking; the toes are ber on the fere feet, and 4 on the armed with strong, sharp, and hool retracted when the animal walks. tines are very short, as in all animals most exclusively on animal food. The composing this genus (which include tiger, panther, &c.) are the most por ferocious of all predatory quadrupe eagles and birds of prey are among ered tribes. The different species are over every portion of the globe, with tion of Australia and the South Pacif but the most formidable are found in est climates; no species has been common to the old and the new we favorite resorts of these animals are forests of the tropics, where they lie during the day, and prowl at night it prey; the more northern and small prefer rocky and well-wooded situati cats hunt a living prey, which they cunning and watchfulness, springing unsuspecting victims from an ar stealthily crawling up to them. Son as the leopard and jaguar, pursue into trees; the cougar lies in wait of or overhanging rock, and falls upon passing beneath. Their aspect is their instincts bloody, and their great; even their voice has sometharsh and terrible. The anatomical of the cats is indicative of great str activity; the jaws are very powerf teeth shaped like wedges, thin and quiring but little force to cut throug on which they feed; the structure o admits of no lateral motion, and force of the immense temporal and muscles is exerted in a perpendicular direction. To assist in tearing their surface of the tongue is covered with horny papillas; these may be felt, a scale, on the tongue of the domesti tongue is rather an organ for removi lar fibres from bones, and for retai in the mouth, than an organ of t neck, shoulders, and fore limbs (markable muscular development: drag away with ease cattle and borse has killed; a single blow of the fore

tiger has been known to fracture a , skull. The mechanism by which their s are retracted and prevented from being during walking, is as follows: the of 2 portions united to each other at a right angle; the articulation is at the m end of the vertical portion, while the tendons are attached to the other porthe action of these muscles causes the one to move through an arc of 90°, the end of the second bone. In the of rest the claw is kept retracted by a he extensor muscle, and by elastic ligahe state of action, the strong tendon us near, with its circular sweep, protrudes claw with prodigious power.—With their icts and admirable destructive weapcarnivora play an important part in the of nature; without their agency the hous animals on which they prey would too numerous for the food provided for rishment, and would thus be the cause rown extinction. Man also reaps a divenefit from the trade in their skins, of immense numbers are used in China as of rank, in Russia as real necessaries er season, and in Europe as ornawesses.—The domestic cat is generally weved to have sprung from the felis maniculets (Ruppel), a native of the north of Africa. This species is 2 feet 5 inches long, of which the tail measures 9 inches; the height at the boulder is 91 inches; in size it does not differ from the domestic cat. The color above is an chry gray, with a darker line along the back; eneath, grayish white; on the forehead are slender black lines, running backward to the part of the neck; the cheeks, throat, front of the neck are pure white; 2 lines an ochre-yellow color, one from the outer le of the cheek, meet under the ear, and 2 ngs of the same color encircle the white the neck; the limbs have 5 or 6 blackish micircular bands; the heels and wrists are ick; the tail is slender, and has 2 dark rings the tip. There is no doubt that this speis the original of the domestic cat of ancient Egyptians, as is shown by the resentations of cats on their monuments, mummies, and by the skeletons found in tombs. It may be a question whether domesticated species was transferred by the antique nations of Europe. There ply is often met with, in modern times, Jish white cat, possessing the most strik-resemblance to the Egyptian species; oth-our domestic cats resemble the wild spe-of Europe. It is probable, therefore, that, all our domestic animals, different nahave domesticated different small kinds ntive cats, which have produced, by the mixture of their closely allied species, the erous varieties now observed. At the same it should be remembered that the whole

genus felis is susceptible of considerable variation; slight variety of color, therefore, does not necessarily imply diversity of origin. Temminck and Ruppel are of the opinion that the felia maniculata is the species from which our domestic cat has sprung; before them most naturalists believed that the wild cat of Europe was the original stock; it is altogether probable that the domesticated species has been crossed in many instances by the wild cat, as shown by the short legs and thick short tails of some varieties. All the small species of cats might be easily domesticated, though the common Egyptian species seems to be the only one generally employed in household economy. domestic cat readily returns to a wild state; neglect, insecurity of their young, or favoring circumstances, drive or tempt them to the woods, where they prowl and hunt, and breed, in the manner characteristic of the genus. Oats, though they prefer flesh, will eat bread, fish, insects, and almost any thing that is eaten by man. As a general thing, they have a great dislike to water, and will rarely enter it for the purpose of catching fish, of which they are extremely fond. They are capable of very strong attachment to man, and to animals reared with them. Among the most remarkable varieties of the domestic cat, are the Maltese or Chartreuse ca of a bluish gray color; the Persian cat, with long white or gray hair; the Angora cat, with very long and silky hair, generally of a brownish white color; and the Spanish or tortoise-shell cat, the most beautiful of all. In Cornwall and the Isle of Man, a breed of cats without a tail is quite common, analogous to a similar and more common breed of dogs.—The common wild cat (felis catus, Linn.) is the only animal of the genus that inhabits the British islands, where it is still not uncommon in the wild districts of Scotland and Ireland; it is found in the wooded tracts of the European continent. The length of the wild cat is 38 inches, the tail being 11 inches. The fur is long and thick, but not shaggy; the color varies from a yellowish to a blackish gray, darkest on the back, where it forms a line, diverging into 4 on the neck and head; the sides are brindled with broad, dark, but indistinct bands; the legs have 2 or 8 black bars, running transversely upward; the tail is thick, with black rings indistinct toward the base, and a black tip. The wild cat is an active climber; its food consists of small animals and birds; its depredations among game are frequently very great. There are no long-tailed wild cats in North America; the animal called wild cats here is a species of lynx. (See BAY LYNX.) The catamount is the cougar of authors. (See COUGAR.) There are several small species of cats in the East Indies: the Sumatran cat, felis minuta (Temm.), and F. Jacanesis (Horsf.); the Bengal cat, F. Bengalensis (Desm.); Diard's cat, F. Diardis (Desm.), and Nepaul cat, F. Nepalensis (Horsf.).

OATACHRESIS (Gr. sara, against, and yours,

use), a rhetorical figure by which a word is put to a different usage from that which it had originally, being borrowed from one idea to express another. Thus Milton, describing Raphael's descent from heaven, says, "He sails between worlds and worlds." This figure is common in the speech of daily life, as in the example, "Tears speak louder than words." The term catachresis is sometimes limited to the abuse of a trope, when a word is wrested too far from its true signification.

CATACOMBS (kara, downwards, and kupsos, a hollow place), subterraneous places for burying the dead. The catacombs of Egypt, from their vast size, extent, and claborate pains spent upon them in decorations, both of architecture and painting, are perhaps more remarkable than any others. The most ancient are those of the Theban kings, which can be traced for a period of 3,000 to 4,000 years. It is supposed that the ancient Egyptians spent such enormous sums on their tombs and processes of embalming, from their belief that the soul would revisit the body if this were preserved from decay; and hence resulted their stupendous catacombs, which to this day interest and astonish the traveller. The entire chain of mountains in the neighborhood of Thebes is mined by an immense number of catacombs. Those of the kings, originally 47 in number, have been mostly defaced, but a few still exist to bear witness to the pristine magnificence of these sepulchres. They occupy a deep ravine, flanked by the bed of a torrent in the centre of the mountain Libycus, and, lying some 6,000 to 7,000 paces from the banks of the Nile, were reached by an artificial passage. Proceeding along the valley, the wanderer discovers openings in the ground, with a gateway in a simple square frame, each gateway being the mouth of a gallery leading to the royal sepulchre. Forty paces within is another gateway opening to a 2d gallery 24 feet in length, and on each side of this are small chambers. A 3d gallery succeeds, communicating with a chamber 18 feet square, and from this is an entrance to another gallery 64 paces in length. This in its turn connects with several small apartments, beyond which lies a saloon 20 feet square, containing the royal sarcophagus. The whole extent of excavation in this single tomb is upward of 225 paces. All the sarcophagi of the kings have long since been violated, and the bodies destroyed, doubtless for the sake of plunder. M. Denon, the French traveller, found, however, in one of the royal tombs, the fragments of a mummy. Robbed as they have been of their royal clay, these tombs still preserve their wonderful paintings, after in some cases a lapse of 4,000 years; the more costly of the catacombs are covered in the whole extent of their interior by hieroglyphics and pictures, generally in fresco, and in all, unless wantonly injured by the Arabs, the colors are as fresh as if laid on but yesterday. The catacombs of the opulent of the ancient Thebans were lower on the mountain than the

royal sepulch tent of their richly decon us fined. Innumerable these tombs, one cu warlike representations, bandry or agriculture. Lvery upation or amusement is exhibit fishing, feasting, &c. Many of the colored yellow on a blue homage paid to me gious or funeral proce phase of human life. III BUILLE U gangs of African negro slaves, co and accurately drawn in all le teristics, such as thick lips and we represented, and are adduced by believe the theory of the u race, as one of the strongest showing at least that so tions of the negro being er ence of climate through suc his type was precisely the . B. C. In a group of a double the Nubians, bound, and driven 1 of Rhamses II., at Aboo Sambo with perfect accuracy all the the modern Ethiop. The 1 Egyptian catacombs also exhibit lossal or pigmy size, as well as and fox-headed deities. The c of the ancient Egyptians may be paintings, as every action of represented with accompanyi far down to the playthings of "The Manners and Custo Egyptians," by Sir Gardne tains many hundreds of drav plates directly copied from nary frescoes, and make the mately acquainted with the extinct people, that he se in hand with the former The catazzania of the Nile. were limited in space, r e in and unadorned. In c mies were packed t could be laid, tier ... uer, les passage between the walls of calculated that, during the of mummification was l not less than 400,000,000 w tombed in the Egyptian cetthe whole period of the (Roman catacombs att tians, more especially a thturies. Connected as un of the early martyrs of the ploration and history has the favorite branches of them are of great antinally quarries hewn k Romulus and Ren tended in the course or the 7 hills on which t

d honey-combed by passages, dark galw corridors, and vaulted halls, where never enters. The light and soft nahe material to be quarried greatly facilne work, and allowed the workmen to eir shafts and galleries as they pleased; vations being made in the soft volcanic id pozzolano, another volcanic subven softer. As the extent and wealth ty increased, new quarries were continened, even miles from the banks of the and continued to be sought through the of the Casars, until the empire began and old edifices were resorted to as s for new ones. None of the ancient have left any account of the uses of cesses when they were no longer quar-Horace, speaking of the caverns under udine hill, says: "This was the compulchre of the miserable plebeians." the time of the persecutions of the as, commencing with that under Nero, wed by those of Domitian, Trajan, Hadrerus, Maximinus, to what is called the llast persecution, which began in A.D. ler Diocletian, the catacombs were with those for whom there was no the face of day. It is conjectured that these sufferers were aided in obtaining iding-places by the fossors or workmen caverns, who were well acquainted ir intricacies, and who became themearly converts to the new faith. It until the year 1877, when the papal ich for nearly 70 years had been at, was restored to Rome, that the catappear to have attracted any serious atfrom the government or the clergy. doubtless owing to the frightful state y, which, for some centuries after the in of the western empire, rendered ttle better than a robbers' stronghold, lly forced the pontiff to flee from the d seek an asylum on the banks of the At this period the catacombs, from een the habitations of persecuted Chrisre thronged with outlaws and assassins; 10 papal authorities acquired strength, them were driven from their lurking nd the entrances to many closed. About ider Pope Paul III., some few of the narkable of the crypts were explored, and lighted by lamps. A deep intersubterranean Rome having thus been ed, Father Bosio, a humble priest, but usiastic antiquary, spent more than 80 his life, from 1567 to 1600, in digging ping in the catacombs; he cleared the) some of the innermost recesses which n blocked up for centuries, and made s of the ancient monuments, inscripaintings, sculptures, lamps, vases, &c., iderground. He did not live to see his ublished, as he died while writing chapter, but it appeared in 1633, by Father Severani, and under the title of Roma Sotterranea. It was translated into Latin by Father Aringhi, and still forms the most important work on the Roman catacombs. He was followed by Father Boldetti, who also spent more than 80 years in his subterranean research, and published in 1720 a folio volume, entitled "Observations on the Cemeteries of the Holy Martyrs and Ancient Christians of Rome." This work is exceedingly These two enthusiastic and meritorious priests have been succeeded by such investigators as Bottari, Marangoni, Lupi, Fabretti, Filippo Buonarotti, Allegranza, &c. Seroux d'Agincourt is one of the most distinguished authorities of modern times; he went to Rome in the latter part of the last century to study Christian archæology and remain there for 6 months, but he became so interested in his inquiries that he stayed nearly 50 years. His great work, Histoire de l'art par les monumens, depuis es décadence au 4' siècle jusqu'à son renouvellement au 16°, treats of the catacombs with profound learning and discrimination. M. Perret, a French architect, who accompanied the army sent by Louis Napoleon to the aid of Pius IX., has been for some years engaged in a work upon the cata-combs. It is not finished, but promises to be far superior to any on the subject which have yet appeared. When Bosio's discoveries were made known, Pope Clement VIII. took the cata-combs under his special protection, and de-creed excommunication and severe corporal punishment against any one who should enter them without leave, or remove from them the least object whatsoever. They have from that time been regarded with peculiar veneration, from their history as hiding-places for the early Christians. Although neglected by the government for many ages, they had attracted the notice of the pious since the beginning of the 4th century. So highly were the virtues of the Christian martyrs esteemed, that personages of the highest distinction were buried in the catacombs, and were happy if they thought that after their death such honor should be paid to their remains. Among illustrious men thus entombed were the popes Leo I., Gregory the Great, Gregory II. and III., and Leo IX.; and the emperors Honorius, Valentinian, and Otho II.—The catacombs of Naples are of greater extent than those of Rome; they are not subter-ranean, but excavated in the volcanic tufa in the face of the hill of Capodimonte, forming a long series of corridors and chambers, arranged in 8 stories communicating with each other by steps. The only entrance now open is that of the church of San Gennaro. Their construction has given rise to many speculations among the antiquaries of Naples, but is now generally as-cribed to the colonists from Greece. Subsequently they were used by the early Christians for purposes of sepulture as well as of worship. St. Januarius and other martyrs were interred here. In the middle of the 17th century they were made the burial place of the victims of the plague, and at the beginning of this century,

several bodies were found by Abbé Romanelli.— The catacombs of Syracuse are larger and better preserved than any other catacombs, and not of so gloomy an appearance as those of Rome and Naples. They form an immense subterranean town, with innumerable tombs cut out of the solid rock, containing the dead of all ages, nationalities, and creeds. They were converted by the early Christians into places of refuge from persecution. The entrance to them is under the church of San Giovanni.-The catacombs of Malta are of small extent, but in good preservation. They are subterranean, and seem to have been used for a place of worship as well as of sepulture.—The so-called catacombs of Paris were never catacombs in the ancient sense of the word, and not devoted to sepulchral purposes until the year 1784, when the council of state issued a decree for clearing the cemetery of the Innocents, and for removing its contents, as well as those of other graveyards, into the quarries which had existed from a remote period beneath the southern part of Paris, and by which the Observatory, the Luxembourg, the Odéon, the Val de Grâce, the Pauthéon, the streets La Harpe, St. Jacques, Tournon, Vaugirard, and many others were completely undermined. Some excavations having taken place, a special commission was appointed to direct such works as might be required. Engincers and workmen were immediately employed to examine the whole of the quarries, and prop the streets, roads, churches, palaces, and buildings of all kinds which were in danger of being engulfed. The plan of converting the quarries into catacombs originated with M. Lenoir, lieutenant-general of the police, and every preparation was made by sinking a shaft, propping up the cavities, and walling off various portions for receiving their future contents. The ceremony of consecrating the catacombs was performed with great solemnity on April 7, 1786, and on the same day the removal from the cemeteries began. This work was always performed at night; the bones were brought in funeral cars, covered with a pall, and followed by priests chanting the service of the dead, and when they reached the catacombs, the bones were shot down the shaft. Such tombstones, monuments, &c., as were not claimed by the families of the deceased, were arranged in a field near the entrance of the shaft, and among these relics was the leaden coffin of Madame de Pompadour. As other cemeteries were suppressed, the bones from them were removed to this general deposit by order of the government. The catacombs served also as convenient receptacles for those who perished in popular commotions or massacres. At first the bones were heaped up without any kind of order, except that those from each cemetery were kept separate; but in 1810 a regular system of arranging them was commenced, and the skulls and bones were built up along the wall. The principal entrance to the catacombs is near the Barrière d'Enfer,

but for some years has been strictly inte dangerous state of the run From the entrance a flight of 90 a to the catacombs; as s of seen branching in ' eral hundred yar scale ILUIT bule, of octagona sorm, and Over the following inscription: Hee w quiescunt beatam sp bule opens into a long from the floor to the rous; too thigh bones are in front, clos piled together, and their unifby three rows of skulls at equal u hind these are thrown the gallery conducts to seve chapels, lined with bones various One is called the "Tomb of the Reve other the "Tomb of Victims, bodies of those who perished period of the revolution, or in was September. Calculations differ as to of bones collected in this vast char it is estimated to contain at le of 3,000,000 human beings. catacombs and quarries under the care very lately drawn up by the on municipal authorities. These e 8,000,000 metres square in e: 1's of the total superficies of Pa CATACOUSTIC, relating w Acoustics.

CATAFALCO (an Italian rd of origin), the decorated tomb on the castrum doloris. The final interment of Michel A was of unexampled magnifications.

CATAGOGIA, or feast of the return, a fetival celebrated at Eryx, in Sicily, in hone of Aphrodite. It was preceded by the feast of the anagogia, during which it was believed the goddess went over to Africa accompand by all the pigeons of the neighborhood. By returned 9 days afterward, and the entrance of the first pigeon into the temple was the signific general rejoicing and feasting. The wind district was said at this time to smell of batts, which was regarded as a sign that Aphroditals returned.

CATAGRAPHA, or forcehortenings, are sell to have been the invention of Cimon of Clean, who probably flourished in the time of false, and drew the human figure in a variety of sell tudes. He first made muscular articulation indicated the veins, and gave natural false drapery. Pliny uses the term categoraphs and denote any oblique view of the counterance.

figure, either in profile or otherwise.

CATAHOULA, a parish of Louisians; and 1,970 sq. m.; pop. 7,183, of whom 2,835 st slaves. It is watered by the Washita, Team Black, and Little rivers, several of which are navigable by steamboats through the parish on its borders. Near the Washita river the seriace is partly occupied by hills. The sell is

is fertile, and lies upon a bed of The productions in 1850 were 6,648 cotton, 188,786 bushels of Indian corn, There are 14 churches of potatoes. newspaper, and 548 children attending The parish was organized in 1808. Harrisonburg.

ALANI, ANGELICA, an Italian singer, in 1784, at Sinigaglia in the pontifical died in Paris, June 12, 1849. Her worked during the day in the shop jeweller, and in the evening played horn in the theatre. Angelica, when 7 years old, attracted general attention remarkable power and purity of her People went in such numbers to the sat of St. Lucia, near Rome, where she red her education, to hear her, that the s had to check the pressure of the crowd. ca, however, continued to sing, and on the convent in 1798 she passed through of scientific musical studies. Toward while her artistic culture was still rather lete, a theatrical manager in Venice pre-n her to appear as Lodoisca, in Mayof that name, and she was successful. she continued to sing at Venice, and Accor making a tour through the different of Italy, she performed at the Italian isbon. Afterward she went to Madrid. receipts of her first concert amounted 11,000. Subsequently she went to Paris, for 2 concerts at St. Cloud Napoleon uer \$900, beside a pension of \$210, and her the free use of the opera house concerts, of which the receipts amount-• \$9,000. In London she received \$13,000 first, and \$17,000 for each of the 7 seasons, beside 2 benefits which \$11,000, and permission to perform provinces. For some time she was i with the management of the Paris · m cooperation with her husband, M. brègue, formerly a captain in the French In this enterprise she was not suc-I. Her clear, powerful voice electrified anglish, especially in "God save the King;" her influence over continental audiences not so great. In 8 years she cleared about 000. She sang in Germany, Denmark, len, Poland, and Russia, returning also conally to her native country, and afteragain made her appearance in Paris, without meeting with great success. 880 she withdrew from the stage, and ed herself at Florence to the education 3 children, and at the same time establ a free singing school for girls, on tion that they should adopt, in addition

during the revolution in Tuscany, she to Paris with her daughters, but almost diately after her arrival she fell a victim 3 cholera. Her favorite airs in concert were lacida Campagna, "the English anthem, the violin variations of Rode. Whatever

eir own name, that of Catalani. In June,

exceptions may have been taken to her unsympathetic singing, and although the fact of her premature exercise of her profession, before she had fully mastered all its scientific details. was frequently apparent in her execution of long pieces, there was only one opinion as to the immense volume and the inexhaustible elasticity of her voice, the brilliancy and power of which was never surpassed. She left to her

children a fortune of \$1,600,000.

CATALEPSY (Gr. καταληψις, seizure), a non-febrile affection, occurring in paroxysms and characterized by a sudden deprivation of intelligence, sensation, and voluntary motion. The disease is so seldom met with that some well-known writers have doubted its existence, and have attributed the recorded cases to imposture. Bourdin (Traité de la catalepsie, Paris, 1841), who collected all the recorded facts within his reach, was able to unite but 88 wellcharacterized observations. The attack is often preceded by headache, confusion of mind, loss of memory, &c.; more commonly, however, nothing of the kind has been noticed. During the paroxysm the patient retains the position and expression of countenance he had at the moment of the seizure; the face is commonly pale, sometimes slightly flushed; the pupils are dilated; but contract on exposure to a strong light; the limbs can be moved with the exertion of a little force, and retain the new position which may be given them; if the patient is standing and is pushed, he makes no effort to save himself; if placed in a painful and constrained attitude, it is retained during the paroxysm. The unvarying, motionless attitude and fixed expression give a strange and corpse-like look to the sufferer. The duration of the attack is variable; sometimes it lasts but a few minutes, sometimes 12 or 14 hours; cases are recorded in which it has been prolonged to 20 or even 80 days. Many cases occur in which the attack is less characteristically marked, or in which a portion only of the symptoms is present. Although deprived of speech and voluntary motion, the patient is more or less conscious of what is passing around him. In Duncan's "Medical Commentaries," a case is related of a woman who in this state of partial catalepsy was taken for dead, and who was perfectly conscious of what was occurring around her, while her body was being laid out and prepared for interment. In costasy, a disease allied to cata-lepsy, and which by imperceptible degrees passes into it, the patient is insensible to every thing about him, while the mind is absorbed in some one object or train of ideas; the muscles are either relaxed or in a state of almost tetanic rigidity, while the patient speaks and sings, per-haps with greater readiness and ease than in his natural condition. This condition is frequently occasioned in nervous and hysterical persons by religious excitement, and is often produced in a similar class of persons by animal magnetism. It is one much more commonly assumed by impostors than true estalepsy. Both

catalepsy and ecstasy seem to be closely allied to hysteria; they occur for the most part in young females of nervous habit, and both the one and the other often commence or terminate in it; occasionally, however, as is likewise the case with some of the more ordinary manifestations of hysteria, they have their origin in serious disease of the brain. The age and history of the patient will help the intelligent physician to discriminate such cases. Some strong moral excitement is generally the immediate cause of the disease, but when it is already formed, or when the predisposition to it is very strong, a most trifling cause—a sudden noise, the surprise of an unexpected visit, &c.—may induce a paroxysm. In itself the disease is never fatal, and morbid anatomy throws no light upon it. In regard to the treatment, in the interval between the paroxysms means should be employed to improve the general health and give tone to the nervous system. During the paroxysm the feet may be immersed in a mustard foot bath and cold applications made to the head; of these, where it can be borne, the cold douche is the most effectual.

CATALOGUE (Gr. καταλογος, from καταλεγω, to enumerate), a list or serial registry of a collection of similar objects, as books, paintings, medals, plants, shells, or minerals. term is most frequently applied to books, signifying an enumeration of the volumes contained in a library, disposed in a certain order. arrangement may be in the alphabetical order of the titles of books, in the alphabetical order of the names of authors, or in a systematic order according to the subjects treated in the works. Of alphabetical catalogues there are 2 especially remarkable for the results of erudition which they contain, that of the Bodleian library in the university of Oxford, and that of the library which Cardinal Casanate bequeathed, in 1770, to the Dominicans of the Minerva at Rome. The former, which has been several times republished and enlarged, abounds in references to the various editions of old authors. The latter mentions the birth, country, and death of the authors, gives references to sources of information concerning them, and indicates those works which form part of great collections. Four volumes of this catalogue, extending to the letter I, were published between 1761 and 1788, under the editorial care of Audiffredi; but the work was undertaken upon so vast a plan that it has not been completed. The catalogue of the library of the British museum, now in process of preparation, is arranged alphabetically, and the letter A alone embraces 16 volumes. Ordinarily, an alphabetical catalogue is only an index to a library; but a catalogue arranged in the order of the contents of books, has the additional advantage of showing the amount of literary labor which has been done in the different departments of learning and taste. When arranged alphabetically by the order of the authors, a catalogue may have something of a

biographical in wh tematically by the treated, it has a to the completen In joining to the cuts alphabetical table of auto phabetical table of the works, the chief are combined, LTIG C highest degree or utility. A copy the arrangement of a m different order. One of the posed for cataloguing the lib museum was to make the of a list of title pages pus out any order, but accompanies by betical indexes, one of subjects. The old other of authors. form a universal catalogue v Universalis of Conrad C Zurich in 1545-'48, which command of all the books then known in Hebreand Latin, with frequent contents, judgments upon and even specimens of their style. sions of literature have been propo for the classification of books. French librarian, Naudé, in a in 1643, established 12 dej bibliography, chronology, geog biography, the military art, canal law, philosophy, politics, and lite 1678, Garnier, the librarian of the Louis XIV., reduced these p to 4: theology, philosophy, assumed nor jurisprudence. Early in tury the bibliographer Martin actions. departments of theology, jurisprudence and sciences, belles-lettres, a have since been usually observed alogues and bibliographical syst Haym, in his Bibliotheca Italian. London in 1726, made 4 great di tory, poetry, prose, and the s The learned Morelli, in his calibrary of St. Mark of Venice, many 20 departments. Casiri, in his can the Arabic MSS. contained in the distributes them in the following or is similar to that adopted for the pr in the same library: grammar, rhetur philology and miscellanea, lexicona, pl politics, medicine, natural history. dence, theology, geography, and h many followed for a long time bibliographical arrangement of Fa published a catalogue, in 6 vu This work contains notices con editors, and commentators, lations, criticisms, or apol concerning the contents, an. ymous or doubtful regularity in the which the work supplies, methodical and detailed bi that has ever b

Mirarian of the university of Jena, contained in "General Repertory of Literature," which peared in 1790. In this scheme there are 16 ceding divisions: general literature, philology, theology, jurisprudence, medicine, philosophy, pedagogy, science of state, science of war, knowledge of nature, knowledge of the arts and trades, mathematics, geography and history, the fine arts, literary history, and miscellanea. Denis, an officer in the imperial library of Vienna, in an "Introduction to the Knowledge of Books," the 2d edition of which appeared in 1796, explains a bibliographical system which, according to him, would form a complete encyclopædia. It is composed of 7 principal parts: theology, jurisprudence, phi-losophy, medicine, mathematics, history, and Philology. In England the attempt has often Philology. In England the attempt has often been made to adopt in cataloguing the genealogitree of human knowledge furnished by Lord Bacon. Yet experience has proved that there is a triking difference between the classification of the branches of learning, and that of the books in which learning is contained. Books are so much more various and manifold than the hu-**≥man** faculties, that a valuable bibliographical system must always be the fruit of experience Tather than a product of genius. All the attempts that have been made to establish bibliographical divisions upon metaphysical principles have been fruitless. Convers Middleton in 1723 published a method for arranging the library of Cambridge, which, although it recognizes 9 departments instead of 5, has a close affinity with the method preva-lent in France. The catalogues which have since been published by the best English librarians are usually divided into 6 classes: miscellaneous literature; theology and ecclesiastical history; laws and jurisprudence; medicine, surgery, physiology, and chemistry; works in Hebrew, Arabic, Greek, Latin, &c.; and educational works.—Among catalogues remarkable for the large number of books which they mention are the Bibliotheca Thottiana, 12 vols., Copenhagen, 1789-'95; Catalogue du Duc de la Vallière, 9 vols., Paris, 1783-'88; and the Bibliotheca Heberiana, 9 vols., London, 1834-'36. The Catalogue Bibliotheca Harleiana, by Maittaire, 5 vols., London, 1743-'45, the "Catalogue of the Roxburgh Library," London, 1812, Clement's Bibliothèque curi-euse, 9 vols., Göttingen et Leipsic, 1750-'60, and Dibdin's Bibliotheca Spenceriana, 4 vols., London, 1814-'15, are especially valuable for their mention of rare and costly books and old editions. Important with reference to Hungarian history is the catalogue of the library of Count Széchényi, Oedenburg, 1791; to classical literature, that of Count Rewiczki, Berlin, 1794; to Italian literature, those of Capponi, Rome, 1747, of Ginguené, Paris, 1817, and of Libri, Paris, 1847; to the fugitive writings during the period of the French revolution, that of Pixerécourt, Paris, 1838; to French dramatic literature, the Bibliothèque

dramatique of Soleinne, Paris, 1843, et seq.; and to oriental literature, the catalogues of the libraries of Langlès, Paris, 1825, and of Sylvestre de Sacy, 3 vols., Paris, 1842-'45. The "Construction of Catalogues of Libraries," by C. O. Jewett, the second edition of which was published at Washington in 1853, contains many valuable rules and suggestions.

CATALONIA (Sp. Cataluna), an ancient division of Spain, lying between lat. 40° 30′ and 42° 51′ N., and long. 0° 15′ and 3° 21′ E. Area 12,180 sq. m. Pop. 1,250,000. It is bounded on the N. by the Pyrénées, E. by the Mediterranean, S, by Valencia, and W. by Aragon. Catalonia is now divided into 4 Aragon. Loride. provinces, viz.: Barcelona, Tarragona, Lerida, and Gerona. The face of the country is much broken by spurs of the Pyrénées. Some of these mountain ranges diverge toward the Mediterranean; others, of which the chief is the Sierra de la Llena, pursue a S. W. direction to the Ebro, and form a water-shed in which 26 rivers have their rise, and flow either westward to the Ebro, or eastward to the sea. The principal of these streams are the Segre, a tributary of the Ebro, the Noguera Pallaresa and Noguera Rivagoranzo, tributaries of the Segre, the Llobregat, Francoli, Tordera, Ter, Flavia, and others. None of these are navigable to any great extent. The general grade of the country is a descent from the mountain altitudes of the Pyrénées to the plateaus of upper Catalonia, and thence to the plains which skirt the Mediterranean. Most of the inland mountains are of granitic formation, those near the coast are limestone. Traces of volcanic origin are found especially in the vicinity of Barcelona. Val-leys of remarkable fertility intersect the mountains. Such are the plateau of Urgel, and the valleys of Cerdagne, Tarragona, Vallez, La Selva, Igualada, Cervera, Ampurdan, and Lerida. About 1 the surface of the province is susceptible of cultivation, the rest consisting of rocks, barrens, and woodlands. Forests of beech, pine, elm, oak, and cork are found in the mountainous districts. Minerals abound. Iron, copper, lead, and manganese are found. Coal is met with in quantity, but it has been turned to little account. Of alum, nitre, and rock salt, the supplies are inexhaustible. At Cardona is a mound of pure salt, 500 feet in height and 8 miles in circumference. Other geological peculiarities are observable. Near Olot, 55 m. N. from Barcelona, is a remarkable district of extinct volcanoes. Montserrat is a single and precipitous mountain, composed of a number of conical hills heaped in confusion one over another, and broken into fantastic shapes of parti-colored limestone. A Benedictine monastery is perched on the cleft of a hill. Mineral and hot springs are found in various districts, as are crystals, amethysts, topaz, jasper, and marbles. The climate of Catalonia varies with the altitude of the region, but is in general temperate, the heat being moderated by sea or mountain breezes. The country is considered healthy, the interior more so than the coast. Although the orange, lemon, almond, olive, and fig grow on the plains, they are produced in less abundance than in other districts of Spain, but orchard fruits ripen in perfection. The vine is exceedingly productive, and wine is the staple export. riculture is further advanced in Catalonia than in any other part of Spain. This is partly owing to the industrious character of the people, partly to the nature of the soil, and in a considerable measure to the more equitable tenure of land which prevails in the locality. All kinds of grain are cultivated and consumed at home, leaving no surplus for export. soil is usually a light loam, easily worked by a pair of cattle. Irrigation being necessary to make it productive, it is found profitable to row wine and oil in preference to breadstuffs. Flax, hemp, dye-stuffs, honey, and wax are produced in considerable quantity. Silk growing is but little attended to, and the raising of wool and cattle is of comparatively small extent. Since the liberation of the South American provinces from their relations with Spain, the trade of Catalonia has greatly fallen off. The shoe trade, calico weaving, and ship building, which were formerly important branches of industry, have almost ceased to exist. tivity, however, continues in the fabrication of silks, velvets, ribbons, liosiery, linens and laces, leather, hats, cordage, brandy, together with cannon and small arms, glass, soap, hol-These are exlow ware, and copper utensils. ported to France, England, and Holland, in exchange for textiles of finer make than the local factories produce, jewelry, codfish, herrings, and other articles of consumption. Along the coast a large proportion of the inhabitants are engaged in the fisheries, but there are few good The ports are Barcelona, Mataro, Tarragona, Palamos, Ampurias, Cadaques, and Alfaques or San Carlos, at the mouth of the Ebro. Railways connect Barcelona with Arcnys via Mataro, and the northern Catalonian railway goes from Barcelona to Granollers.

CATALPA, a genus of plants, belonging to the natural order bignoniacea, whose generic characteristics are a 2-parted calyx, a bell-shaped, swelling corolla, 5 stamens, 2 of which only are fertile, a long, slender, cylindrical pod, and broadly winged seeds. There are 8 species, all of them trees, with simple leaves and panicled, terminal flowers. The C. syringifolia (Loud.) is indigenous in the southern parts of the United States, and is cultivated as an ornamental tree in most of the cities of the northern states. It is distinguished by its silver-gray, slightly furrowed bark, its wide-spreading head disproportioned in size to the diameter of its trunk, the fewness of its branches, and the fine pale green of its very large heart-shaped leaves. Its showy flowers are white, slightly tinged with violet, and dotted with purple and violet in the throat. They are succeeded by pods, often a foot in length,

which hang till the locality, this tree frequen height, with a trunk fr diameter; but in mere shrub, and ... is cultivated in the continent of Europe and largest catalpas in E Inn gardens, and is said to there by Lord Bacon. In 1 the south of France, the wayside tree, and alc try villas. It may be propseeds or from cuttings of the rereaches the height of 20 feet in 10 after which it begins to blossom. is light, of a very fine texture, susce brilliant polish, and often used in ca

CATALYSIS, CATALYTHM, CATALY TION (Gr. Kara, from, and Ave, to le chemical decomposition is brought compound, and its ingredients are ter into new combinations in introduction of another bouy, v itself form a part of any of these on nor lose either of its constituen some manner not understood, its mere presence or contact. chemical action, the force is catalytic. A small quantity us to cause a mixture of sugar and ment, and form the new c carbonic acid and alcohol; to to sugar, causes it to b refuse to crystall introduction of a new turns does not actually explain the giving it a name, but tends to derstanding with a plausible eathus hinder further research.

CATAMARAN, a name given East and West Indies to a kind of the seashore. Those used at only 3 logs of the cocoa tree on the coast of South American from 70 to 80 feet long, and fruide. They are particularly crossing heavy surfs near a sha shore.—Catamaran was also take the flat-bottomed boats with where at the commencement of the pres meditated the invasion of England.

CATAMARCA, a department of the effection of La Plata, in South Americalies E. of the Andes; is extremely from produces corn and cattle for home consumptions the adjacent departments with entered and exports red pepper to Buenos Ayres. Popping to the produce of the produce of

CATAMENIA (Gr. mers, according to μην, month), or menses, a monthly sowing sanguineous fluid, which occurs in the function of menstruction greatly commences at the age of pulsary, and

nates at the "critical period," or "change e;" including a period of some 30 years, sen the ages of 14 and 45. The blood of

nial flux is exuded from the vessels uterus, and escapes through the vagina; w generally returns every 28 days, and nues from 3 to 6 days. The amount disged varies from 4 to 8 oz. in most cases, very woman is a law unto herself in this set; as that which would be merely norin some women would be profuse in The first menstrual flow is generally

The first menstrual flow is generally ed by languor, pains in the back, head, chilliness, &c., which usually disappear a the discharge takes place. The after ocences are often unaccompanied in healthy less by any premonitory or attendant

des by any premonitory or attendant. During the whole of a woman's life she is capable of bearing children. It is closed, she ceases child-bearing.—influence of climate in advancing or retard-the period of puberty and menstruation, been shown by recent observation to have a formerly much over-rated, the average od being much the same all over the world, a stional cases as numerous in one region

muer. Mr. Roberton has shown, from sucal evidence, that menstruation does not more early in the negress than in the female, and Dr. Vaigas affirms that pressure menstruation is more common in the ite than in the colored races. Early marriages Hindostan and other warm climates, then, not depend on natural precocity, but on the ite and customs of the country.—The uterus ongested during menstruation, and so are the ries and the Fallopian tubes; the tissues of vagina are relaxed, and the os uteri is

I and swollen; these conditions disapwaen the flow ceases, and the parts return meir natural state. During pregnancy and tation, the menses usually cease, and they y also be suppressed from other local causes. Arious menstruation sometimes takes place means of obviating the ill effects of supsed menstruation, by substituting a similar tharge from some other part. It occurs means, the nostrils, the lungs, the nach, or even from the eyes, and other parts the body.

MTAMOUNT. See Cougar.

ATANDUANES, an island of the Philips group, S. E. of Luzon, lat. 13° 47′ N., 3. 124° 10′ E., is 36 m. long from N. to S., averages 19 m. wide. The inhabitants are

trious race, and live by agriculture, fishaud the construction of a light species of which they sell to the adjacent islanders.
ATANIA (anc. Catana), a scaport city of y, and capital of the province of the same e, situated on the E. coast of the island, he shore of the gulf of Catania, which is an of the Mediterranean, at the foot of Mount Area of the province, 1,761 sq. m. in 1856, 411,832; pop. of the city about to. It is esteemed the handsomest city

in Sicily, with wide and regular streets, and numerous and splendid public buildings. Its vicinity to Etna has introduced the use of lava for various purposes. The streets are paved with it, the finest buildings made of it, and it is formed also into ornamental chimney-pieces, tables, and toys.—The ancient Catana suffered severely in the Roman wars. The modern city has been several times nearly destroyed by earthquakes and eruptions of Etna, but has been rebuilt each time with greater beauty than before. It has many remains of the Roman city, among which are an amphitheatre, a theatre, and ruins of baths and temples. Its principal public edifices are the cathedral, rebuilt since the earthquake of 1693, the senate house, the university building, frequented by about 500 students, and a vast Benedictine convent. The city gives title to a bishop, has an upper tribunal, and a board of trade. The surrounding country is famous for its excellent wine, and also for its corn. The annual pro-duction of wheat is about 400,000 qrs., of which 800,000 are used for home consumption, and the rest for exportation. The production of olive oil is also considerable; and of lemons and oranges about 100,000 boxes are exported annually. The other principal articles of trade are almonds, figs, hemp, flax, soda, manna, cheese, macaroni, amber, cantharides, lava, and snow from Etna, which is exported to Malta. Among the manufactures must be mentioned those of linen and silk; the carvings of amber, lava, marble, and wood, wax bleacheries, and distilleries of licorice and oil. The port of Catania ranks as the third port in Sicily, the annual entrances and clearances of vessels amounting collectively to about 2,000, and carrying cargo to the value of \$500,000. Next to Messina, Catania is the chief mart for silk, the united exports of both cities amounting annually to about 450,000 lbs., beside the silks retained for the local manufactories. In 1848 and 1849 Catania was disturbed by violent popular outbreaks, especially on April 6 of the latter year. when the Neapolitans expelled the Sicilians from the city.

CATANZARO, a town of Naples, capital of the province of Calabria Ultra, situated on a mountain near the gulf of Squillace, 30 m. S. S. E. from Cosenza; pop. 12,000. It suffered severely from an earthquake in 1783, which overthrew some of the principal buildings. It still has, however, a cathedral, several churches and convents, a castle, a royal academy of sciences, and numerous schools and charitable institutions. Considerable trade is carried on in cattle, corn, and wine, and there are manufactures of silk and velvet. The women are reputed the hand-somest in Calabria.

CATAPHRACT (Gr. καταφρακτος, mailed), in ancient military art, a horseman in complete armor. The cataphracti were heavy-armed cavalry, the horses of which were also covered with defensive armor, with scales or plates of metal.

CATAPLASM (Gr. καταπλασμα, from καταπλασσω, to spread over, to plaster), a poultice, or soft substance applied externally to some part of the body, either to repress inflammation and allay pain, or to promote inflammation or its consequences, and lessen the pain attending it. For the former purpose it is applied cold, and often contains a preparation of lead to increase its astringent and refrigerating power; for the latter, it is used at different degrees of temperature. When intended to hasten the progress of inflammation and lead to suppuration, poultices should be of as high a temperature as the part will bear; but of a lower temperature when used as mere emollients. Cotton-wool, steeped in water, and bound to the part with a light bandage, is a very simple and efficient application, in most cases where a cold poultice is required to allay pain, and repress inflammation.

CATAPULT (Gr. κατα, against, and παλλω, to hurl), an ancient military engine for throwing

CATAPULI (Gr. kara, against, and makka, to hurl), an ancient military engine for throwing stones, darts, and other missiles, invented in Syracuse, in the reign of Dionysius the elder. It acted upon the principle of the bow, and consisted of wood frame-work, a part of which was elastic, and furnished with tense cords of hair or muscle. Catapults were of various sizes, being designed either for field-service or bombardments. The largest of them projected beams 6 feet long and weighing 60 lbs. to the distance of 400 paces, and Josephus gives instances of their throwing great stones to the distance of 4 of a mile. The Romans employed 300 of them at the siege of Jerusalem. From the time of Julius Cæsar it is not distinguished by Latin authors from the ballista, which was originally used only for throw-

ing masses of stone. CATARACT, a disease of the eye in which there is an opacity of the crystalline lens or of its capsular investment. It is most common in old persons, in whom it seems to be the natural consequent of age; but it also occurs in infants, and is even congenital; it appears to be more frequent in cold and damp climates than in warmer regions, and it is certainly hereditary in many instances. Among the exciting causes, especially of the capsular form, are wounds and inflammations of the internal eye; but the ordinary cause is the diminished nutrition of the organ in common with others in advancing True cataract may be either lenticular, capsular, or capsulo-lenticular, according as the sent of the opacity is in the lens itself, in its capsule, or in both at the same time. Certain cases of opacity external to the crystalline apparatus have been called false cataracts, and may be caused by the effusion of lymph, blood, or pus, or by false membranes; secondary cataracts are those which follow the surgical operations for the extraction or depression of the lens. The lenticular cataract may vary in hardness from stony to gelatinous; its opacity is rarely uniform, being generally thickest in the centre and thinnest on the edges; in some cases the opacity begins at the circumference

in rays which alowly converge to the color varies from pearly where we yellow. The capsular cataract, which considers more common n the k offers a great variety of a and : may occupy either the surface, or both. In the TION G both the lens and its capsua the varieties common to but sign of cataract is a more or less u appearance behind the pupil of a vecolor, deepest in the centre, distinct as the disease progres sign is a gradual diminution or visco panied by the sensation as if a close, spiders' webs, or snow-flakes, were before the eyes; objects are seen best a tain positions of the head, as when one side, and during the evening was shade when the dilated iris permits: to enter the pupil; on looking at a flame appears surrounded by a these haze. The progress of the disease is ver generally unaccompanied by fever, pain disturbance of the general health. It a rare for a person to be unable to day from night. M. Sanson has p excellent catoptric test for the descataract by the reflection of light. lighted candle is held before the eve we healthy person, 3 images of it 1 erect, moving upward when moved upward, produced by reflectant the cornea; 2, also erect, produced by tion from the anterior surface of the capsule, and moving upward with the 3, very small and inverted, r posterior surface of the capsu ward when the light is caused use cataract, the inverted image is fr ginning indistinct, and soon disapp the deep, erect one is also soon visible. By dilating the pupil wi this experiment is rendered easy Cataract is for the most part reby a surgical operation; certain f by inflammation of the capsule. with the exciting cause without an up and cases are on record of the spot of lenticular cataract by the run capsule and the escape of the lens terior chamber of the eye, where ally dissolved.—From the carl surgeons have attempted to demoty by means of needles and knives of forms. Whenever the disease is o the lens and its capsule, and the eye respects is healthy, and the pa young or too old, an open n may ed with a prospect of ocald ; in persons under 20 year be operated on at once, a the chance of a successful small. Before submitting pertion, it is well to prej a mild diet and a getUATARAUT

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my inflammatory tendency of the organ; and on to smear belladonna ointment around the whit, or to put a few drops of its fluid extract be the eye, for the purpose of dilating the popil to its utmost extent. All operations for maract reduce themselves to 3, which have their object either to displace the lens, break it up, or to remove it from the eye: 1. Operation for depression of the lens, or souching. The description of this may be found even as far back as Celsus; it has undergone many modifications in modern times. The instrument employed is a fine needle, either alightly curved at the end or straight, with the Point spear-shaped; Scarpa's needle is slightly curved at the end. When the needle is passed through the selerotic, as ordinarily, the operation is called scleroticonyxis; when it is Pessed through the cornea, keratonyris. Dif-ferent needles are preferred by different operators; but, as in the case of the stethoscope, that instrument is the best which the surgeon accustomed to. In scleroticonyxis the needle, held like a pen, is passed through the sclerotic, Perpendicularly to its surface, a line or two from the cornea and a little below its trans-Yerse diameter; the concavity of the instru-ment is turned down, in order to separate Ther than to divide the fibres of the membrane; when the needle is fairly in, its concavity is turned backward, so that it may pass under and before the lens without touching the iris or the capsule; when it has reached as far the pupil, the capsule is lacerated by delicate circular movements of the point; then the seedle is applied directly to the lens, which is Pashed outward and backward to the bottom of the globe, out of the line of the axis of Vision; it is held there a short time, that the cells of the vitreous humor, into which it is Pushed, may resume their position around it, and thus prevent its reascension in the line of the pupil. Some surgeons prefer the operation reclination, which consists in turning the lens backward from an upright to a hori-Zontal position; and some always recline the lens before they depress it. In keratonyzis, the needle is passed through the cornea, about tof an inch from the sclerotic, on its lower and exterior portion, and is directed through the dilated pupil to the lens, whose capsule it is made to lacerate; and, if possible, the lens is depressed, reclined, or broken up. This method is objectionable on account of the danger of wounding the iris, and of the difficulty of reaching the lens, and is applicable only to exceptional After the operation, the eye should be lightly covered, and the patient should remain in bed in a darkened room, with the head raised, and be kept on a low diet for a few days; after 4 or 5 days in ordinary cases, a little light may be gradually let into the room, and at the end of 3 weeks the eye may be generally left uncovered. The accidents most to be feared are inflammation of the iris, choroid coat, and retina, which should be treated by antiphlogistic measures.

2. The operation for breaking up the lens, without depressing it, is very easily performed, and excites very little inflammation; but it requires frequent repetition, is slow in its progress, and is adapted only to soft and especially to congenital cataracts. The needle is inserted just as in the method for depression, the capsule is divided, and the lens is freely broken up without removing it from its place; the cataract is thus brought into contact with the aqueous humor, and is gradually dissolved by it. 3. In the operation for extraction, the cornea is incised through rather more than half its circumference, the capsule is lacerated, and the lens is extracted from the eye entire; it is performed with a triangular knife, with sharp point, straight and blunt back, the edge slanting obliquely, and the blade growing wider and thicker as it approaches the handle; this kind of knife cuts by the simple motion of pushing, and fills up the incision as it makes it, thereby preventing the escape of the aqueous humor. The cornea may be cut on its inferior or superior half, or obliquely on its external and lower portion, each of which has its special advocates. When the lower half is cut, the knife, with its edge downward and forward, is passed into the external side of the cornea, perpendicular to its axis, a little above its transverse diameter, and about a line from the sclerotic; passing in front of the iris, the point is made to cut its way out on the inner opposite surface; the cutting of this flap constitutes the first period of the operation, after which the lids are permitted to be closed for a few seconds. Taking care in the subsequent steps of the operation not to make pressure upon the globe, the surgeon raises the flap, and, by means of a proper needle, lacerates extensively the capsule; if, at this time, the lens does not of itself come forward into the anterior chamber, gentle and properly directed pressure will cause it to come out; to complete the operation, it is sometimes necessary to remove also the pieces of the divided capsule. When the lower half of the cornea is opaque or in a condition unfavorable to cicatrization, or very small, Wenzel, Richter. and Jäger recommend the section of the upper half; the steps of the operation are about the same, though perhaps more difficult to execute; it offers the advantages of presenting less liability of the iris being wounded, of the vitreous humor escaping, and of the lips of the section being separated by the edges of the lids. By the oblique incision, which is the favorite in France, the lids could not possibly interfere with the apposition of the edges of the wound. More care is required after extraction than after depression, to avoid inflammation; after it is certain that the patient can distinguish objects, the eye is lightly covered and the person confined to bed in a dark room, with the head but slightly elevated.—Of these operations, extraction removes with certainty the obstructing lens, is very little painful, does not wound the ciliary vessels or nerves, the choroid, or the retina; but it may cause deformity of the pupil or the escape

of the vitreous humor; the edges of the wound may not readily heal, or may ulcerate, with hernia of the iris or opacity of the cornea. Depression leaves a permanent cause of irritation in the eye, and the lens is liable to reascend; the needle perforates the choroid and retina, and may cause inflammation of the internal eye; but there is no danger of the escape of the vitreous humor, nor of spots or ulcers of the cornea, nor of hernia of the iris, nor of immediate evacuation of the globe. Depression mediate evacuation of the globe. is best in children and intractable persons; where the eyes are small and deep-seated, the cornea flat, or the conjunctiva irritated. When the cataract is soft and the pupil small or adherent, extraction is best in old persons; in adults with a large anterior chamber and the eyes sound; and when the cataract is hard or membranous. Convex spectacles are necessary, under proper restrictions, to supply the place of the extracted crystalline lens.

CATARACT, the sudden fall of a large body of water over a precipice. The term cascade is applied to a smaller body of water falling from a great height. Rapids are formed by the impetuous flow of water down an inclined plane and over rocks. The American rivers furnish sublime waterfalls, especially those formed by the currents issuing from great lakes. The waters of Lake Superior at its very outlet form the falls of St. Mary (Sault Ste. Marie). A river a mile wide descends in a rapid current 22 feet within ‡ of a mile. A body of water, apparently as large as that which flows over the precipice of Niagara, rushes unceasingly from the great reservoir above, whirling and foaming among the rocks, and presenting an impassable barrier to all modes of navigation except the frail barks of the Indian and French voyageurs. Among the whirlpools and eddies of these falls the birch canoe glides like an arrow past the threatening rocks the least touch of which would rend it in pieces. Its course is controlled and directed by the steady and strong arm of the Indian giving to it a greater speed than that of the waters upon which it is borne. The falls are lost below in the smooth waters of St. Mary's strait, and thence these pass tranquilly on through the great basins of Lakes Huron and Erie, till in the Niagara river they again rush impetuously down the rapids which lead to the great cataract. This is the most famous in the world, being the largest body of water precipitated from so great a height. on the British side is 150 feet, on the American 164 feet. (See NIAGARA.) Following the course of these waters through Lake Ontario, their next sudden descent is in the St. Lawrence river, where in a distance of about 9 miles above Montreal occur a succession of remarkable rapids, known by the names Coteau du Lac, the Cedars, Split Rock, and the Cascades. In consequence of the great depth of the water, these rapids are safely navigated by steamboats descending the river, their course being controlled, as is that of the birch cance, by giving to them

additional speed. The a remarkable cascade stream 6 m. N. E. or falls, among the C York, are celeb 1OF The cascades are supposed beauty. small lakes, the waters of which, after pass into a deep ravine, whose precipite are from 1,000 to 1,500 feet CATSKILL MOUNTAINS.) NI met with in California, WHICH : the article CALIFORNIA. In the the American continent, the falls or 1eq are the most prominent. They the descent of the river Funza fr plain of Santa Fé de Bogota. the falls is 574 feet, and the column u that rises from them is visible at the distri 17 miles. (See Bogota.) Among of Europe, that at Trolhetta, in Sw as the highest for the body of water. In a they occur frequently, though usu size, and dependent for their in upon the wildness of the surrous the dark and rocky glens thr rush. The cascades in the Augustian among the highest in the world. markable are the Evanson, which has of upward of 1,200 feet, and the 0 has a vertical fall of 2,400 feet. The or more properly the rapids, of the Nu celebrated.

CATARRH, a non-inflammat characterized by an increased secret cus from the glands of the mucou the name is popularly confined to the membrane of the airbe extended to that of the and even genital mucous time of Hippocrates, secretion of catarrh v proud whence it might es , uy the and descend into the caroat or cord; and some modern empirica. a similar idea as their own. tion was that a part of the rising in vapor to the brain, v the arch of the skull, as in the and reappeared in this fluid secretion: a favorite theory of Galen. the time of Van Helmont, Schneider, in the middle of t that the fluid of catarrh v creted by the glands of Though a local s of a constituti maintained, ofy and similar diseases of observed by him in the dren and adults of the ly are most subject to frequently in cold panied by sudden in individuals we foul air, and mental demically. Catarri.

stitutional disturbance; the principal is are sneezing, increased secretion of I mucus, and a snuffling nasal respira-

it is in the head; in this form, or

a sufants, there may be feverish sympd considerable difficulty of breathing, ng with the act of sucking; in older the eruptive diseases most commonly se with coryza. If in the throat, there wheezing respiration, huskiness or ss of the voice, and a sense of fulness swelling of the membrane. When ase extends to the lungs, it may easily into an inflammatory bronchitis, or rous from the mere accumulation mucus; but it more commonly, espeold persons, takes on the form of chronic rhaa, with a very profuse secretion of frothy matter, requiring great effort pulsion. In like manner the stomach affected in old age, giving rise to $k\alpha a$, without inflammation, characterhe vomiting of mucous matter reseme white of an egg, and seriously interith the digestive process. So, many diarrhœa consist essentially in a catarrh ntestinal mucous membrane, with an al secretion of the muciparous glands anal. In many cases of catarrh of the the urine is loaded with mucus, and of its membrane highly irritable, withig positively inflamed. Catarrhal disen occur epidemically, under the name rrhal fevers, in which there seems morbid disposition in all the mucous nes to secrete an excess of mucus. the conditions already mentioned, the mucous membrane may be affected, ting some forms of leucorrhea and rhæa; the conjunctiva may also be atgiving rise to catarrhal ophthalmia; these conditions, especially the last 2, ome contagious, without the usual spegin. These catarrhal diseases are not y dangerous; but they are apt to beconic and exceedingly difficult to remen the lungs, stomach, intestines, and rinary organs are affected, and espehen occurring, as they often do, in old ilitated persons. The treatment of the ms is entirely expectant; in the chronic he principal dependence is on tonics ulants, especially quinine, and on local ions of a stimulating and alterative whenever the seat of the disease is accessible. They form some of the stinate cases the physician has to manh from the difficulty of direct medica-

from the age and weakness of the rity of persons who suffer from them. SAUQUA, a new and thriving post of Lehigh co., Pa., pop. 1,500, on bank of the Lehigh river, 3 m. above wn, contains a number of churches, 4 or, and is well supplied with water by a of waterworks. The Crane iron works,

said to be the largest smelting establishment in the United States, are situated here. One of the furnaces has turned out in a single week the extraordinary amount of 285 tons of iron.

the extraordinary amount of 285 tons of iron. CATASTROPHE (Gr. καταστροφη, revolution), the change or revolution which takes place in and terminates a dramatic action. The ancient drama was divided into the protasis, epitasis, catastasis, and catastrophe, or the introduction, continuance, heightening, and develop-ment or conclusion. The plot being laid in the preceding parts, and raised to the highest degree of intricacy and portentousness in the catastasis, it became the most difficult task for the dramatic poet to produce properly the catastrophe. to introduce it as something long expected and foreseen, or as something disappointing all expectation, and essentially untrue and incredible. To produce the latter kind of catastrophe, the Greeks sometimes made use of the deus ex suachina, a divine agency suddenly introduced to cut the knot which the poet could not untie. In modern tragedies and higher comedies, the catastrophe is often placed in the inward development of character, and is produced necessarily, like the working out of a cause, from a series of preceding situations. The difficulty of devising catastrophes which shall be at the same time natural and exciting, is seen in the numerous dramas which abound in striking situations, but which have neither asthetic nor psychological significance.

CATAWBA, a co. in the W. central part of

CATAWBA, a co. in the W. central part of North Carolina; area 250 sq. m.; pop. 8,862 are whom 1,569 are slaves. It derives its name from the Great Catawba river, which forms its N. and E. boundaries. The surface is diversified, the soil fertile, and drained by the S. Catawba river. Its productions in 1850 were 52,190 bushels of wheat, 65,674 of cata, 855,185 of Indian corn, and 6,086 lbs. of tobacco. There were 2 iron founderies and one tannery. Iron ore is abundant. This co. was formed from the N. part of Lincoln in 1842. Capital, Newton.

CATAWBA, or GREAT CATAWBA, a river of N. and S. Carolina. It rises in the Blue Ridge, in Burke co. of the former state, flows nearly E. through the gold region of N. C., makes a bend to the S. at the W. border of Iredell co., and enters S. C. near the mouth of the Little Catawba, about 15 m. from Yorkville. After reaching Rocky Mount in this state, it takes the name of the Wateree, and ultimately unites with the Congaree to form the Santee. The length of the Catawba is about 250 m.; of the Wateree, 100 m.

CATAWBA WINE. The Catawba grape was first discovered in a wild condition about 1801, near Asheville, Buncombe co., N. C., near the head waters of the Catawba river. About a quarter of a century afterward the grape was found by Major Adlum, in a garden of a German near Washington, Gen. Davy, of Rocky Mount, on the Catawba river, having been the supposed original transmitter of a few plants to that city during the period of his

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senatorship, some time previous to 1816. Major Adlum wrote, before his death, to Mr. Longworth, of Cincinnati, who procured some of the Washington grapes, and who was the first to experiment with them on a large scale: "I have done my country a greater benefit in introducing this grape to public notice, than I would have done if I had paid the national debt." The wine produced by Major Adlum was sweet and agreeable, but sugar was added to the must. Mr. Longworth, however, abstained from any admixture of sugar or spirit, so as to produce the pure fermented juice of the grape. From Cincinnati the grape culture has spread along both banks of the Ohio to Pittsburg and Cairo, and in a southerly direction through Kentucky and Tennessee to Alabama, and westward into Missouri. The juice of the grape is manufactured either into still wine or sparkling wine; the latter, which is most in demand, containing an addition of alcohol. The wine is mostly white, though some red wine is made. A sample of Catawba, 7 years old, was proved to contain from 11 to 111 per cent. of alcohol. According to the census of 1850, the total production of all kinds of wine in the United States was 221,249 gallons, showing an increase of 96,515 gallons over the production of 1840. But this increase, great as it was, dwindles into insignificance when compared with the rapid strides which the production has made within the last 8 years; the credit of pushing it to its utmost extent being especially due to the population of German birth or descent in the west and north-west. The annual yield in the Ohio valley alone averages now 500,000 gallons, and in the whole country it cannot fall much below 2,000,000 gallons, or, at 90 cents per gallon when new, below a value of \$1,800,000. Of the 500,000 gallons produced in the neighborhood of Cincinnati in 1856, 40,000 were made into sparkling wines, and the rest drunk in the pure and simple state. The sparkling Catawba of Mr. Longworth's cellar of 1848 was peculiarly celebrated for its flavor and purity. The winehouses of Mr. Longworth in Cincinnati have been, for the last 9 years, under the direction of an accomplished wine chemist from Rheims. His mode of preparation is thus described: "In the spring following the pressing of the grapes, the wine, which has meanwhile undergone the vinous fermentation, by which 10 or 11 per cent. of alcohol is developed, is mixed with a small quantity of sugar, and put into strong bottles, with the corks well fastened by twine and wire. The sugar accelerates a second fermentation, which always takes place about this time, and thus a strong movement is produced inside the glass, which generates gas enough to burst the vessels briskly, adding thereby considerably to the cost. This is called the gaseous fermentation, and it renders the drink more exhilarating, more prickling on the tongue, and more fruity. This last effect results from this, that the flavor of the fruit

mostly passes off with which is largely gene fermentation, and in a ond or gaseous fer from the first feri but by means of survey corks, it can be saved in end of about a year, t and a sediment has been of this sediment, the b made to fit their necks a with corks downward, and we several weeks, which proc ment down against the corm. twine are then cut, and the it off. Then more sugar, fo. a new cork is driven in and ifew weeks the article is ready for co. Among the many other distinguished of the Catawba in Cincinnati, must be Mr. Robert Buchanan, who has writ ble book on the grape culture. a vineyard in the Ohio valley is at \$200 to \$500 per: tend to 5 acres, and with use and children several more ---beside raising the necessary of the family. The av 500 gallons of wine per and from 600 to 900 1 such as 1848 and 1853.

CATBIRD (mimus felicos, V of the thrush family, peculiar to ica. It receives this name fr its 1 note, which resembles the 1 cat; this is not, however, and morning and evening song of melody is worthy of the n which it belongs. The catl Maine to Florida, n the south toward the m -JI FOUT the middle states about the April, and New England ab one of the few species which we of agriculture, being rarely for habitations of the farmer. is more slender and graceful we Its plu American robin. blended; the tail long and re the bill is black, slightly color of the upper plumage ... bla slate color, the head, tail, and in quills being of a brownish bla and general under plumage of gray, paler on the abdomen, coverts being brownish red; feather is transversely its inner web; the p ge of th somewhat paler tint. **b** 9 of wings 12 inches, 1 The nest is large, generally a thickets, and constructed of an mixed with leaves, weeds, dark fibrous roots ar manner. The ergs are 4 of a greenish blue color.

ists of berries of the sweet-gum, poke, ch, insects, and fruits and berries of It migrates during the night. It is y in its manners, and will follow with e for a considerable distance any inits locality, mewing as it sits on a its tail from side to side. It is use, and hates especially cats and as attachment to its young is very le, and it will often feed and raise the other species. Beside its own agree-it possesses considerable imitative cking the notes of other birds in an manner; according to Latham, it will, a domesticated state, imitate strains ital music. Though this bird is

persecuted, it deserves the kindest for its services to the agriculturisting wasps, grubs, worms, and insects, ould have destroyed ten-fold more fruit than it ventures to claim at the maturity. Its flesh is good, but is d as an article of food.

I, a species of vocal composition of 8 parts, written in the same clef, the nee of which produces a very whimsinumorous effect. The 2d voice combe 1st part when the 1st voice has ed the 2d part, and the 8d voice combe 1st part when the 2d voice has he 2d part, and the first voice the 8d is 1st voice then begins the 1st part ille the 2d voice takes the 8d part, and ice the 2d part, and so on indefinitely. It is of English origin, and catch clubs, urpose of singing catches and glees, merly common in England; one of some celebrity, used to meet at the House tavern, in London, so far back

AU, LE, or CATEAU CAMBRÉSIS, a wn, department of Nord, on the river m. from Cambrai; pop. 8,233. It is, has salt works, manufactories of meriwla, calicoes, soap, and tobacco, and is producing a superior quality of linen I wo treaties were signed there on April between England and the Netherlands e side, and France and Scotland on the ad on the following day between ad Spain. Wellington made his headhere in 1815, and Marshal Mortier was e.

THISM (Gr. κατηχεω, to sound back), in and modern sense, an elementary textany science or art. More commonly, it means a text-book for the instruction catechumens and children of a parongregation in the doctrines of the r the moral precepts of Christianity, nal form of this instruction was oral, on and answer. The practice was to ose who needed instruction into some lace, and there persons qualified either utations, or delivered dogmatic lectured then questioned the hearers upon

what had been said. It is probable that the early catechists followed no set forms, but endeavored, by catechizing their hearers, to awaken a train of thought, and then followed it whither-soever it might lead. But when the doctrinal theology of the church became more strictly defined, catechetical instruction became more These compends have of course varied with the variations of theological opinion in different ages or communions. The council of Trent in 1545 drew up a form of doctrine, which has been pretty closely followed since in the catechisms of the Roman Catholis church. Since that time, although the forms of the diocesan catechisms vary, there is a unanimity in their doctrine not found in Protestant churches. The principal catechisms of the Christian churches are the catechism of the council of Trent, which is a large and elaborate exposition, intended rather as a theological thesaurus for the clergy than as a system of popular instruction; the catechism of Luther (1529); of Calvin (1586); the Heidelberg cate-chism (1568), on the basis of which the Zürich catechism was drawn up (1689) for the Reformed church of Germany; the catechism of the Jesuita, drawn up by Father Canisius (1564); that of the Sociniana, published at Racow (1574 and 1608); that of the English church, the work probably of Cranmer (1549), with the exception of that part which relates to the sacraments, which was added by Bishop Overall in the 1st year of James 1., after the conference of Hampton court; that of the Westminster assembly, longer and shorter (1648), which serves as a basis for the Calvinistic and Presbyterian churches, both of Great Britain and the United States; and finally, the catechism of Bossuet, which is in general use in the Roman Catholic church of France. There are many mediaval writings and documents bearing the name of catechisms which have recently been much studied, and which if collected together would form a work similar to the collections already made of old liturgies and hymns. The private or individual catechisms of German theologians are numerous, and many of them voluminous, departing from the primitive idea of the Christian catechism, as an instrument for popular and elementary instruction.

OATECHU, an extract of the inner wood of the acacia catechu, a small tree which grows abundantly in the East Indies. The drug had long been in use before its origin was discovered, and had been called terra Japonies, as it was erroneously supposed to be derived from Japan. It is prepared by cutting off the exterior wood, and boiling the dark-colored chips of the interior of the trunk in water. The solution is then evaporated to the consistence of sirup, when it is dried in the sun in the form of flat cakes, or moulded by pouring it into earthen vessels. There are 2 species of the catechu, one nearly black, the other red, both said to be the product of the same tree. There are other varieties, some of which prob-

ably never reach this country. That common in our markets is the preparation above described, and is imported from Calcutta. Catechu has no smell, but is bitter to the taste. It contains a large proportion of tannin, which is soluble in alcohol. It is employed in India for tanning hides, and also as a dye for cotton goods, and in Europe, in the calico print works. In medicine it is used as a tonic and astringent.

OATECHUMEN, a term applied originally to a person, adult or otherwise, who was under a preparatory course of instruction previous to admission to baptism. Catechumens had a particular place assigned them in the church, and were allowed to be present only during a part of the service; from the other part they were warned to retire, a deacon crying out, "Withdraw in peace, ye catechumens." catechumens, there were several degrees in the The private catechumens might only be privately instructed; the audientes might hear sermons; the orantes might take part in the prayers; the competentes were those who were ready to be baptized, and so stood at the threshold of communion. In later times, the term catechumens came to be applied to the children who were learning the catechism, as

preparatory to confirmation.

CATEGORY (Gr. κατηγορια), originally, a charge or complaint made against any one, and hence it came to denote any thing that can be truly affirmed of a person or a thing; thus if we say A is B, B is a category of A, and A is in the category of B. The terms that may thus be predicated or affirmed may be classified in various ways and for various purposes; and the classes or genera into which they are divided are called categories. these Aristotle, the first writer that attempted a classification of them, made 10, namely: 1, substance or essence; 2, quantity; 3, quality; 4, relation; 5, place; 6, time; 7, position; 8, possession; 9, action; 10, passion. Thus if we are speaking of a man, we may give his substance or essence, a man; quantity; one; quality, good; relation, friend; place, at home; time, yesterday; position, sitting down; possession, having a book; action, reading; passion, being tormented with the noise of children. It is evident that in each of these cases the words in italics may be varied almost endlessly in the same category. Instead of man, the subject may be any thing else within the range of thought, and instead of 1 in the category of quantity there may be any number whatever; and the terms which are in the same category, as 1, 2, 5, &c., &c., are said to differ only in degree and not in kind. Thus all those in the category of quantity must denote some particular number, and those in the category of time must denote some particular time. It is evident from the passage in which this enumeration of the categories is given ("Topics," book i., chap. ix.), that Aristotle had in mind chiefly if not exclusively objects of sight or sense-perception, and classifies the predicates that might be affirmed

of them. The passage is as follows: next define the genera of the ca which the above named four [that is, u genus, property, and accident] are Now these are 10 in number: quantity, quality, relation, where, we tion, possession, action, passion: for and genus, and property and ways be in one of these propositions through these a thing is, its quality or quantity, or recategory. Moreover, it is evident for that he who signifies what a thing is at signifies substance, at another e another some other category. is proposed, and one says that the posed is man, or animal, he says and signifies substance; but when w proposed, and one says that the th is white color, he says what it quality. So, also, if when the 11. cubit is proposed, one says that w. is a cubit in size, he will say what it signify quantity; and so of the r of these, whether it be predicated of its is, if the definition of a thing be weedi the thing], or if genus be pr [that is, if its genus be affirmed or a icate], signifies what the thing this it would seem that in the estin Stagirite all subjects as well as preus be referred to these 10 ca there would be given to we a still wider comprehension that we templated, and we should say that we may speak of at all must be either quantity, quality, relation, place, t possession, action, or passion; and the word category has passed fr as it did at first, literally, only wante firmed of a subject, and to denote an e classification of the subjects tl in either sense of the word the incomplete and inadequate. It has found of much use, though the of great service as a means of the want of some satisfactory c been constantly pressing upon writers in this department. Cons cluding predicates only (since for the at first designed), the classification It includes but very little of wl to be said of a triangle, or any matical figure, for example; still les of what should be said of a mere phe of intellectual activity, a fact of and still less of the attributes of other immaterial agent. And in physical objects themselves, it we to say to which of the categor them, our predicate would beli ing of the cause of any object ... Or again, if we were v to results of a chemical s , it w cult if not impossible to 4 mil 006. egories within which to

I these difficulties, Kant proposed a ication of the categories. He seems aught that the result could be much tually accomplished if we take for g point, not predicates as Aristotle but the fundamental laws and coner which cognition takes place; since s that only those properties, relations, robject by means of which we have can be affirmed of it in any act of int. These categories (of the underis Kant would regard them) he di-4 species with 8 varieties in each, 12 categories in all. Kant thought udamental ground of Aristotle's error method, the à posteriori, and that if succeed we must deduce the categohe à priori forms of thought. These could best be found in the act of and from them he would derive the of cognition. Now of judgments 4 species with 3 varieties in each,

2. Quality. 8. Relation. 4. Modality. (1) Affirmative. (1) Categoric. (1) Problemat-

- (2) Hypothet- (2) Assertive. (2) Negative.
- (8) Indefinite. (8) Disjunctive. (8) Necessary.

he opinion of Kant, there must be a ing condition of cognition for each rieties of judgments, and consequentry or class of predicates for each:
, as (1) one, (2) some, (8) all; 2, (1) real, (2) unreal, (3) partly both, ited, or real within certain limits; 8, (1) substance and property or in-) cause and effect or dependence, or al action (Wechselwirkung); and 4, 1) possible or impossible, (2) being ing, and (3) necessity and accidence. Cousin has complained of this classiunsatisfactory; and, in fact, it does) have answered any such purpose as evidently expected of it. Cousin the primary classes of categories, as priori according to Kant's notion, b, the one called variously and under ite conceptions of substance, cause, solute, &c., and the other under the terms property or phenomenon, a, relation or condition, &c. But this in seems to have lost sight of the ject which Aristotle had in view, was still a controlling motive with ely, some classification of predicates pose of facilitating the processes of on, discussion, and reasoning. Dr. his "Logic" (part ii. chap. 4), has predicates into 5 classes or categoy: 1, essentia; 2, differentia; 3, acquantity; and 5, cause or effect. he includes all the properties of the genus, and so of all the higher genera, s the essence of a thing; in the 2d, ntia of the species, which gives its

limitations and distinctive characteristics; in the 8d, whatever may be accidental to it, and so different at different times without changing its identity, and which, therefore, cannot enter into science properly so called; in the 4th, the quantity, whether discrete, as the number, as 1, 2, &c., or continuous quantity, as finite, large, small, infinite, &c.; and finally, the relations of an object in time, as fixed by its antecedents and consequents, causes and effects. Of course there are some of these categories into which some objects will never fall, as, for example, a mathematical figure cannot fall into the 8d or 5th, as no matter that is truly accidental to it enters into the discussion of such a figure; nor do we speak of it in relation to its cause or its effects, since it is not considered as an objective reality at all.—Still another classification of categories of great practical value may be given, based upon the quality of the term by which the sub-ject is denoted. Thus, if the subject be a nega-tive term, we can affirm of it only negative predicates; if a privative, we can affirm only the essentia of the proximate genus, with a denial of some of the properties of its species. Among positive terms we have 1st the abstract and the concrete. The abstract are either (1) general, denoting a genus, or (2) individual, denoting the abstract conception of a single property, as whiteness. Of neither of these can we predicate any terms implying their concrete existence, their quantity or extent, their divis-ibility, cause or effect, &c., since all these things can belong only to concrete and therefore substantial realities. Concrete terms may be either (1) individual or (2) collective. Thus, congress, which is a collective term, is as really a concrete reality as any one of the men who are members of that whole. And yet it holds of all collective wholes that some things may be predicated of them which cannot be predicated of any individual member or part taken indi-vidually, nor yet of them all taken generally or as a genus; and so, conversely, predicates may be affirmable of each member taken separately which cannot be affirmed of them taken collectively: e. g., each member of congress is a man, and may be a Christian; congress is neither a man nor a Christian. Then, finally, the subject may denote (1) merely a subjective reality, or a conception which exists only in the mind, as when we speak of a triangle, a circle, &c.; or (2) it may denote an objective reality which exists out of the mind, and as such is cognized by the mind itself. In this case our classification would be based, like that of Kant's, not upon an a posteriori classification of the predicates as actually observed in use (for no such classification is or even can be complete and satisfactory), but upon the *à priori* conditions of cognition as indicated by the processes of cognition and the formation of conceptions and the terms to represent them. And it is obvious that if this classification should be followed out it would determine for us & priori what may be affirmed of any given subject, and

so give assurance of completeness in the results of our investigations, and of certainty in our

reasonings and discussions.

CATEL, CHARLES SIMON, a French musician, born June, 1773, died in Paris Nov. 29, 1880. He was one of the first professors appointed to the conservatory of music in Paris, and is the author of a number of musical works, of which his Traité d'harmonie is the best.

CATEL, FRANZ, a German artist, born in Berlin, Feb. 22, 1778, died in Rome, Dec. 19, 1856. Ilis earliest efforts were designs for illustrated almanacs. He then painted in oil and water colors, and took up his abode in Rome in 1812. Overbeck, Schadow, and Cornelius gave him much encouragement, and he painted historical and genre pieces, and landscapes. During a residence in Sicily, about the year 1818, he painted a large number of views of Mount Etna, and other prominent places on the island. He died rich, directing his fortune to be invested for the benefit of poor artists.

OATENARY, the curve formed by a chain hanging from two points, not in the same ver-

tical line.

CATERPILLAR, the common name of the larve of lepidopterous insects, including butterflies and moths. Caterpillars vary greatly in form and appearance, as may be judged from the fact that about 600 species are known in New England alone, and probably many are yet unknown. The body is composed of 13 segments; the 1st constitutes the head, containing the jaws and oral appendages; the 2d, 8d, and 4th form the thorax of the future insect, and the remaining ones make up the abdomen. The head is rounded, and of a harder consist-ence than the body; on each side are 6 very small ocelli, or simple eyes, with a very convex cornea and a spherical crystalline lens, 2 short antennæ, and a mouth, with strong jaws moving transversely; the mandibles are hard, for breaking up the food, while the maxillo are soft and adapted rather for holding it; in the middle of the lower lip is a conical tube, through which issue the silken threads from which their nests and cocoons are made, and their suspensory fibres; a viscid fluid, enclosed in 2 long and slender bags, is poured out through the "spinneret" in a fine stream, and hardens into silk on contact with the air. The segments of the body are very nearly equally developed; the 2d, 3d, and 4th have each a pair of tapering, jointed legs, covered with a shelly skin and ending with a little claw; these are the rudiments or cases of the future limbs, and are the true organs of locomotion; some of the other segments are furnished with soft, joint-less, fleshy, and contractile legs, called prop legs, which disappear with the larval condition, being only prolongations of the external covering and shed with it, like the nails and claws of the higher animals; the abdominal legs vary in number from 4 to 10, and are provided, around the margin of the sole, with rows of minute hooks capable of such direction as is necessary

for a secure hold. smooth, at others hairy, external appendages, was defence, are shed with state. Where the middle s unprovided with feet, the arched or looped manner on v iarly known in the common these species are hence called ers, surveyors, and geometers: in a state of repose, fix th hind legs only, and pr resemble in direction, fo power of remaining thus i at a time must be due to a which we have no idea in 1 the species which have 8 to 10 is walk by short steps, in a continu manner. Some smooth caterpiller of the sphinx moth (commonly es worm), have a spine or thorn up the last segment of the body, director and curved; though this looks like been considered an offensive or on, its softness is such that it ea wound. The larve of some of terous insects, as of the saw flicida), resemble caterpillars both in habits; but these false cate distinguished by their greater (18 to 22), and by the absence on hooks in their prop legs; the sects, having the same number on scaly and not soft and m XFEDOL side of the body are 9 over = or stigmata, situated in the ing segments to the 12th, provided these communications these communicate directly wi respiratory organs, which are in branching tubes; in the p truches are dilated into vesicles permeating every The intestine is short and = system is a series of gas one for each segment, greater part of it being o nĚ and thorax. Caterpillate vary the mean may be taken at an i exceeding this being large, while below it may be considered have only 8 feet in all are turn generally the moths' caterpiles a caterpillar compared to that compared to the compared to great, and the rapidity of astonishing; there is no parable to it for vora eat in 24 hours more than weight; though less ve they are quite as de fecundity and their vegetable world. Acous the common silkworm. which it attains its 1 from 1 to 40 lines and 95 grains; dur

seed 9,500 times in weight, and has eaten ses its weight of food. The caterpillar privet hawk moth on leaving the egg about 1 of a grain, and at the end of s, when it has acquired its maximum size been known to weigh 142 grains, and to over 4 inches in length, thus increasing wan 11,300 times its original weight. ing to Lyonnet the larva of one of the muer moths (cossus ligniperda, Fabr., or a ryleutes of Newman), during the 8 years h it is supposed to remain in the cater-te, increases 72,000 times its first uy a great accumulation of fat for its ment in the pupa and perfect states. Most llars feed on vegetable substances, the flowers, roots, buds, seeds, and even the m of plants; many domestic pests gnaw and furs, leather, and fatty substances; Thus some are quite exclusive in their diet, Others are more indiscriminate feeders. they are very numerous, scarcely any plant capes their attacks, and at such times their ranges are deplorable, reducing trees in midmmer to their winter leafless livery. with acrid juices are the favorite food of some species, and the nettle and other spiny shrubs the natural habitate of many smooth and **tender**-skinned varieties. Most feed on the exterior of plants, but some of the most destructive and most delicate live in the interior of The sweetest fruits, as branches and stems. pears, plums, and apples, ripen and fall prematurely, the abodes of caterpillars; plums are especially liable to be thus inhabited, while the each and apricot are free from all larve; it has been observed that a single fruit rarely contains more than a single caterpillar, the second inhabitant, if there be one, being the larva of some other order of insects. Wheat, rye, barley, and other grains are infested by small caterpillars, which gnaw away the whole interior without any external perceptible trace, so that an apparently sound heap may be only a collection of useless skins; a single grain contains just the quantity of provision necessary for the transformation of the insect. Another example of the instinct of the lepidoptera is seen in the fact of their depositing their eggs on the parts of the plant which will furnish an easily accessible supply of food to the caterpillar when it is hatched; their eggs are found glued to fruits, and to flowers that are to produce fruits, between the very petals, so that the young find themselves surrounded by an immediate supply. are remarkable for the eagerness with which some species will feed upon their fellows, in preference to vegetable substances in profusion around them. Different species select different times of day for feeding; some eat at all hours, some in the morning and evening, and others only at night; a knowledge of these habits is of great advantage for the easy destruction of many pests of the vegetable garden. Though enerally disgusting objects, the contrast and brilliancy of the colors in some of them are em-

inently beautiful. Some species herd together in great numbers, constructing their silken habitations in common; others live solitary, exposed to light and air, or protected in rolled leaves or silken sheaths; others burrow in the ground, or conceal themselves in the stems of plants and the pulpy substance of leaves. The caterpillars which live in one nest all come from the eggs of a single insect, and are generally hatched on the same day; from 200 to 700 may thus be found together, and may remain so through the chrysalis condition, or may separate at different periods of life; some, though living in great numbers on the same tree, are solitary with respect to each other, performing no work in common; the most solitary are the leaf-rollers, which are also the most remarkable for their vivacity. For the mechanism of the various abodes of caterpillars the reader is referred to the works of Réaumur, Latreille, Kirby and Spence, and other practical entomologists: The attitudes assumed by caterpillars when attempts are made to catch them are characteristic of species in many cases; some roll themselves into a ring and remain as if dead, the hairy on resembling little hedgehogs; others fall instantly to the ground and try to escape by rapid flight; some attempt to defend themselves by various motions of their bodies. The mode of marching adopted by the "processionary caterpillars" is very remarkable; these live in society, and when they quit their nest they go in a regular procession, a single caterpillar first and the others in single file, or 2, 8, and 4 abreast; the line is so perfect in the columns, that the head of one is never beyond that of another in the row; following their leader, stopping when he stops, they make journeys from tree to tree in search of food, returning to their nest in the same order; they form their ranks, march, and halt, with the precision of soldiers; when several nests are in the same wood, the spectacle of these creeping battalions, issuing forth and returning at the same hour, is exceedingly interesting; the processions generally take place toward night. Another species, common in pine forests and living together, walks in procession in single file, often very long, the head of each in contact with the tail of the one in advance; they defile in a straight line, or in a variety of graceful curves; they sometimes go to great distances from the nest, always with the same slow and grave step, following exactly their leader; they return to the nest by the s path, which they find not by the sense of sight but of touch; the path of exit is covered as they go by a silken tapestry, and they return upon the same delicate carpet, however tortuous may have been their way. In the article BUTTERFEE, it was mentioned that eaterpillars change the skins several times before attaining their perfe state, spinning for themselves a sort of eccount of silk, interwoven with hairs of their own, with bits of leaves, and even with particles of earth, suspending themselves by silken threads, or burying themselves in the ground; the reader

is referred to that article, p. 157. Those lepidopters which pass the winter in the egg, live in the caterpillar form during a part of the summer; the eggs are protected against cold by the shell and by the sheltered or subterranean situations in which they are placed; others pass the winter as caterpillars, concealing themselves under stones and the bark of trees, or descending deep into the ground where the cold cannot reach them; the social varieties retire to their warm and water-proof nests; these come forth in the spring quite well grown, but most pass the winter in the form of chrysalis, in protected or in open situations; a few pass this season as perfect insects. The natural enemies of caterpillars are numerous; almost all insectivorous birds and poultry devour them eagerly; other insects not unfrequently feed upon them; and little maggets developed in their bodies from the eggs of the ichneumonides cause thousands -to perish prematurely. In the northern states there are about 1,000 different kinds of butterflies and moths; as each female lays from 200 to 500 eggs, these species, from a single female each, would on an average produce in a year 800,000 caterpillars; if one-half of these were females, the second generation would be 45 millions, and the third 6,750 millions; with such fecundity it may well be imagined that the destructive powers of caterpillars must be very great. The work of Dr. Harris on "The Insects Injurious to Vegetation," under the head of "Lepidoptera," gives an extended and valuable account of the ravages of caterpillars in America, particularly in New England; to this are referred those specially interested in the subject. Alluding to laws in France and Belgium which require the people to "uncaterpillar" their gardens and orchards, under the penalty of a fine, he thinks similar regulations might be enacted here with advantage, or at least that the states might offer a respectable bounty for caterpillars by the quart, thus affording remunerative and highly useful employment to children and otherwise idle persons. Many destructive caterpillars will be alluded to under the articles HAWK MOTH and Moth, and under the popular names of the most noted species.

CATESBY, MARK, an English artist and naturalist, born in 1679, died in London toward Having first studied the natural sciences at London, he afterward repaired to Virginia, and remained in America 7 years, returning to England in 1719 with a rich collection of plants. Encouraged to revisit America, he arrived in South Carolina in 1722, explored the lower parts of that state, and afterward lived for some time among the Indians about Fort Moore, 300 miles up Savannah river; after which he continued his researches through Georgia and Florida. After spending 3 years upon the continent, he visited the Bahama Islands, constantly occupied in delineating and collecting botanical and zoological objects. He returned to England in 1726, and issued in 1730 the 1st volume of his great work on the "Natural History of Carolina, Florida, and the Behama Islanda! figures were etched by himself from he paintings, and the colored copies were under his own inspection. In this work has been twice republished, were found! descriptions of several plants which a cultivated in all European gardens. (was a member of the royal society, author of a paper on the "Birds of in the "Philosophical Transactions." in that been perpetuated by Gronovina, plant called Catesbaa.

plant called Catesbaa. CATFISH, one of the malacopterygii rayed fishes, of the family silurida, and genus pimelodus of Cuvier; characte: a smooth palate, the palatic hone of ing teeth, but with no band of teeth re those of the upper jaw; the head or with 8 fleshy barbules; skin naked. 1: describes 16 species as occurring in th water streams and lakes of North Amer there are about 50 in various parts world.—The common catfish, or horn (P. catus, Linn.) is one of the namon fishes of our rivers, and is by m ferred as an article of food to all ot viatile species except the pickerel; sp are occasionally met with weighing pound. Length 7 to 9 inches; color di most black on the head and back, lig the sides, and white beneath, in front ventral fins, which are behind the p Upper jaw longer; tail nearly even and ed; head smooth and flattened; sl and covered with a mucous secretion. 2 fleshy barbules on the top of the h tween the snout and eye; at the the upper jaw are 2 thick fleshy t reaching to the middle of the pector and there are 4 others under the low The mouth is capacious. There are spines midway between the eye and th ing of the gills; the 1st ray of the 1: fin is strongly spinous; the 2d dorsal the pectoral fins have also a serrate these spines become fixed and immo the will of the animal, and serve as for defensive weapons. Varieties somet in this genus without ventral fine have been described as a new genus terus. This species is the most com in the New England and middle state found in the great lakes and along the states from Maine to Florida. It prefer bottoms, as do all the species of the The great lake catish (pinelodus a Lesueur) is from 2 to 4 feet long, to 4 feet long, to 4 feet long, to 5 form 6 to 80 pounds; it is 6 a deep office and Ontario. This sof a deep office color, and has the tail forked. Other are the Huron catfish (P. corners, 10 inches long, found in Lake H: n ern catfish (P. borealis, Rich.), 80 in found in the northern regions; catfish (P. albidus, Lesneur), of a sah color, 12 to 15 inches lo

the mudfish (P. punctulatus, Cuv.), 8 feet long, of a brown color spotted with from Louisiana. Among the large sues found in the Ohio river and its tributare the P. aneus (Les.), 2 to 8 feet long; atus (Les.), 1 to 4 feet long; P. cupreus ., 1 to 4 feet long; P. limosus, P. carulesand P. xanthocephalus.—The catfish are h in their movements, securing their . ather by stratagem than by swiftness. ale moves about with her young, like Though their flesh we with her brood. smally esteemed in the country and on western rivers, it is very insipid to -sons accustomed to salt-water fishes. Catname applied to other species of difseus genera, and among others to the ferocious Thicas lupus (Linn.), more properly called ruu-fish.

OATGUT, the intestines of sheep and other s, dried and twisted, used for strings of cal and other instruments. How this name to be applied to the strings it designates can explain. Shakespeare in an old or "Cymbeline" alluded to "horse hairs calves' guts," which in later editions is ed to cats' guts. In Bacon's "Natural wary" mention is made of "strings of guts" a viol; but no early allusion to the inof the cat being used for this pur-us anywhere met with. The dulcet strains are emitted by the organs of this animal · cease with its life, and the viscera of the t sheep are almost exclusively selected to w forth from the harp, guitar, and viol those evenly sounds which harmonize so little with a nature of the material which produces them. process of preparing these cords is an art ich has received the attention of many ntific men, and is described in detail in works upon arts and manufactures, as by Ure and Mr. Tomlinson in their dictionaries, with great minuteness in Laboulaye's Dicvaire des arts et manufactures, in which, the head Boyauderie, is given a volumimemoir upon the subject by M. Labar-This essay obtained for him the prize Société d'encouragement, and demon-d that by the use of his disinfecting liquid, blorite of soda, the nauseating putrefacthe materials and the results of this be avoided. In the establishments where ade of manufacturing these cords is connen and women are alike engaged in hrious processes, which, from the descrip-Ton, appear to be the most disgusting in luman beings are employed. M. Labar-States that no one can express the disgust enced on first entering one of these workand yet, he says, to show the influence bit upon man, there is no lack of worknor are they more frequently sick than engaged in other employments. eating odor in which they live never leaves even after their Sunday cleaning; one tly recognizes it after one visit to the

place of their labor. The membranes are sub jected to numerous different processes, lasting several days, to thoroughly clean them. They are exposed to fumes of burning sulphur to purify them, and are slit and twisted into different sized cords according as they are designed for musical strings, whip cords, hatters' cords, or clockmakers' cords. They are then dyed, and afterward, as they are stretched upon frames, dried and hardened by exposure to a temperature of 180° to 200°. Lastly, they are cut off and coiled up for sale. The English fail to make good musical strings. Theirs have not the strength of the Italian strings, and the smaller ones are frequently fractured before they can be brought to the proper pitch. The cause of this is supposed to be the fatness of the English sheep, the intestines of lean ani-mals being much stronger; in this respect the Italian sheep have a decided advantage. Otto, in his "Treatise on the Violin," says that the best strings are those from Milan, sold by the name of Roman strings, and as these are imitated by inferior cords made in Bohemia and the Tyrol, he gives the following as the marks of the best article: "The Milanese strings are as clear and transparent as glass. The third string should be equally clean as the first. They must by no means feel smooth to the touch, for they are not ground or polished off by any process, as all other manufactured strings are. If a good string be held by one end in the finger and opened out, it will recoil to its former position like a watch spring. Every string when stretched on the instrument should look like a thin strip of glass on the fingerboard; those which are of a dull and opaque appearance are useless. Their elasticity is after all the best criterion, as no other strings which I have tried have that strength and elasticity for which the Milanese are so much esteemed."

CATHARINE I., empress of Russia, born at Germunared in Sweden in 1682, died in St. Petersburg, May 17, 1727. Her father was a Swedish quartermaster, John Rabe; her mother, Elizabeth Moritz; her own original name, Martha. After the death of her husband, Elizabeth Rabe returned to Livonia, where she had married him, and where she soon died, leaving several children of her first husband (afterward made counts by Peter the Great), and Martha, then a child of 8 years. A sexton of the place took care of the destitute orphan, from whose house she was then taken to that of the provest Glück, at Marienburg, who educated her with his children. In 1701 she married a Swedish dragoon of the garrison of Marienburg, but the campaign of 1702, in which he had to serve, and the capture of Marienburg (Aug. 23) by the Russians, under Sheremetical, separated them forever. Martha, together with the family of her protector, Glück, was made captive by the Russian general, who treated the old clergyman kindly, but retained the females. At the distribution of the spoils, she was allotted to Gen. Baner, whose mistress

she was until she was ceded by him to the princess Mentchikoff, who employed her in household services. It was there that Peter the Great saw her, was captivated by her beauty, and made her his mistress (1703). She adopted the Greek creed, and with it the name of Catharine Alexievna. In 1706 she bore Catharine; in 1708 Anna, afterward duchess of Holstein-Gottorp, and mother of Peter III.; in 1709 Elizabeth, afterward the empress of Russia. She maintained her influence over Peter by the vivacity of her spirit, her unwearied activity, and her good temper. She shared the troubles and fatigues of his campaigns, and frequently calmed the wild outbreaks of his savage temper. When in 1711 his great rival, Charles XII., who, after the defeat of Pultowa (1709), had found refuge and protection in Turkey, had succeeded in arming that state against the Russians, and Peter, after an imprudent march, found himself reduced to the extremity of starving on the banks of the Pruth, or surrendering his army, Catharine, with the assistance of Ostermann and Shaffiroff, saved the desponding emperor and his new created state by bribing, at the sacrifice of her jewels, the Turkish grand vizier. Peter proved his gratitude by marrying her secretly, by ack@owledging her as his wife in 1712, and declaring her empress in 1718. As such she was crowned in Moscow in 1724. children she bore after her marriage with Peter, most died in their early infancy. The determimost died in their early infancy. nation of Peter to make her his successor was shaken by his suspicions about her conjugal virtue, and still more in 1724 by his conviction of her infidelity, in consequence of which the chamberlain Moens was beheaded (ostensibly for mismanagement in office), his sister ignominiously flogged, and his 2 sons sent to the army in Persia. It has been asserted that Catharine, having been shown by Peter the head of Moens, still hanging on the scaffold, said calmly: "What a pity that the people of the court are so corrupt." She succeeded, however, in strengthening her position by reinstating Mentchikoff in the favor of Peter, which he had previously lost by his devotion to her. But still so doubtful was her situation, that at the death of Peter (Jan. 28, 1725), which was kept secret until her succession was secured, she could not avoid the suspicion of having poisoned her husband. archbishop of Pleskov, Theophanes, declared under oath to the people and the army that Peter on his deathbed designated her as the worthiest of succession, and the guards, the synod, and the high nobility, gave their consent, and the people their oath of fidelity to the first "empress" and autocrat of all the Russias. The "empress" and autocrat of all the Russias. policy of Peter was continued under the leading influence of Mentchikoff; but soon the caprices of the empress, who was beside guided by favorites, and subject to intemperance in drinking, were felt in the management of affairs, and blunders committed, while her ruined health prepared a sudden end. Her successor was Peter II. II. CATHARINE II., empress of Russia,

born at Stettin, May 2, 1 burg, Nov. 17, 1796, was tian August, then gov ward reigning prince of $oldsymbol{\iota}$ marshal-general of Prus princess of Holstein-Ge her the names Sophia a education. At an early the empress Elizabeth, accord tion of Frederic the Great, to be her nephew and successor, Peter ther brought her to the court of she adopted the Gre creed, receive of Catharine Alexie . and was 1745. But all the ex formed of a life of delight as future empress of the gr chy of the world, soon vanished up ference and repulsive treatment of her h who, though not incapable of good was rude, dissolute, and passionate. and lively temper could not be con the consolation of continued studies retirement in which she lived du Elizabeth, but sought connections which were no Among the persons who surry herself, Soltikoff won her lives his spirit and good looks, and le favor and envy had sent him as foreign courts. At that time (mother of Paul, afterward her se empire. Poniatowski, a hands complished Pole, won the place on his first appearance at the court, and v ed in her favors by the empres caused Augustus III., king of Puland him as his ambassador, but was so by intrigues of representatives of who saw in his sympathies for l his influence over Catharine and re for the French-Russian-Austrian was recalled, and Gregory Orl object of her favors. ceeded Elizabeth, the ill feeling between and Catharine b 70 and the life of both, p public amours of Peter. hatred. Catharine spone of h diation in favor of Elizabeth Orloffs and their friends v revenge her. The b Panin, and Princess L. prising woman, became then chie the conspiracy agai Peter, which wa promoted by the ge ınt thy nation and army by tue . discipline, as well as by two of the unfortunate monarcia. joined by malcontents, r and ambitious courtiers. the ly detected and one of the w ed, when they hastened its can night of July 8-9, 1762, Catha from Peterhof to St.] way on a peasant's 1

the guards, who hailed her as empress, though, according to the original plan, her son Paul was to be declared emperor and herself regent; but this had been changed by the Orloffs, and the future senator Teploff read, instead of the prepared manifesto, a new one in the Kasan church. Peter was soon seized, and after a few days strangled in prison. To gain pardon the sooner for her part in the crime, Catharine made the most splendid promises to the nation, flattered its prejudices, exhibited great devotion to the national religion and its priests, was crowned with great pomp at Mos-cow, and made a show of extraordinary zeal improvements in industry, commerce, and the navy, and for reforms in the adminis-tration of justice, as well as in the manage-ment of the external affairs of her wast empire. Courland was compelled to depose its duke, Charles of Saxe, and to submit again to the rule of Biron, who had made himself hateful by his cruelty. Her influence prevailed in Poland after the death of Augustus III. (1763), in election of her favorite Poniatowski as king the name of Stanislas Augustus, from affection and weakness she justly expectwe extension of her influence over the boring state, distracted as it was by religand civil dissensions. But this happy nencement could not allay the hatred of

onal mulcontents; attempts against the emwere plotted at Moscow and Petersburg. the aim of setting upon the throne of the s, Ivan, son of Anna Carlovna, who had almy atoned by 24 years of imprisonment under lizabeth and Catharine, for having worn as a hild, for a few months, the imperial title bewe the accession of the former. The violent eath of Ivan, in his prison at Schlüsselburg 1764), put an end to these schemes, and atharine could now enjoy more easily the leasures and festivities of her court, troubled at little by its intrigues about favors and fa-The convocation of representatives orites. com all the provinces of the empire for disuseing the reorganization of justice, at Mosow, was a new manifestation of her political ac-ivity, as were the rules elaborated by her, and d in the first session, of her political wis-

But the rude Samoieds spoke of oppresby their governors, and a proposition for
enfranchisement of the serfs was soon
ande. Catharine was afraid of the conseuences, and hastily dissolved the assembly,
who declared her mother of the country.
Freater were the results of her external diplonacy. Poland, undermined by her intrigues
and her protection bestowed on the dissidents,
con became a prey to its neighbors. The
confederation of Bar (1768), under Pulaski,
Potocki, and other patriots, the weak opposiion of France to Russia, and a declaration of
war by the Turks, could not save the unhappy
epublic, and its first division by Russia, Ausria, and Prussia, ensued in 1772, and Catharine
eccived a proportionate share. The Turks were

humbled by her armies under Romanzoff, on the Pruth and on the Kagool (1770), by the conquests of Chocim and Bender, as well as by her fleet under Alexis Orloff, which won the great naval victory of Scio, and burned the Turkish fleet in the bay of Tchesme; and the last disasters of the great vizier compelled the Porte to the peace of Kootchook-Kainarji (1774), and its cession of Kinbourn, Azof, Yenikale, Kertch, and both Kabardahs to Russia. Orimes was made independent, soon to become a prey to Russia. Having happily subdued and severely punished the revolt of the Cossack Poogatcheff a pseudo-Peter, in the eastern provinces (1771-74), she now formed the plan of expelling the Turks from Europe, and founding a new Byzantine empire under a prince of her house. This scheme, favorably regarded by some philosophers of France, was eagerly promoted by her new favorite, the ambitious Potemkin, who ruled her no less arrogantly than he did the em-pire. One of the gates of Moscow received this inscription, "Way to Constantinuple;" one of her grandsons the name of Constantine; and plans were made on the banks of the Neva for the restoration of Sparta and Athens. After a journey through the eastern provinces which had been the scene of the revolt, she undertook a new one, in 1787, through the southern parts of her empire, to the lately conquered Taurida (in part the ancient Tauris). Potemkin made this a most magnificent triumph. The eyes of the empress were dazzled by enchantments; palaces rose on desert prairies, to shine for a day; villages and cities, of which only the walls were real, were seen from afar, covering the barren plains of the Tartar nomads; masts and flags rising above the sands showed fictitious canals; feetivities and bonfires followed each other; and dances and song proved the happiness of a population of a hundred nationalities, which ran in the night to appear next day in new scenes of illusion. Catharine, who never forgot to listen to the applause of the French philosophers, amused herself and her court at the same time, with the translating of Marmontel's Béli-sairs, but still pursued her diplomatic schemes. Poniatowski, who came to see her after 23 years, near the frontiers of his dismembered state, was repaid with kind promises for ancient personal affection and new political fidelity. Joseph II. of Austria, who came to Kherson, was won for a common war against Turkey, which ended for Austria with his death (1790), and without gain, and for Russia, after the conquest of Otchakov by Potemkin, after the great victories of Suwaroff, and his bloody conquests of Ismail and Bender, with the peace of Jassy (1792), and the acquisition of Otchakov and the country between the Bog and Dniester. This result, so slight in comparison with the expected overthrow of the Turkish empire, was owing in part to a war with Gustavus III., the gallant king of Sweden, who marched against St. Petersburg, but was happily checked in Finland by his officers refusing to advance, and was thus compelled to make peace (1790); in part to the opposition of England and Prussia; but principally to the bravery and fanaticism of the Turks in defence of their country. The progress and victories of the French revolution, though giving her a kind of satisfaction by the humiliation of several states once mighty, filled Catharine with horror, and made her soon forget all her predilections for France, and her own vaunted liberalism; she assisted the émigrés, broke off every communication with the French government, and even made an alliance with England. Poland was in the mean time the chief object of her attention. Its Long diet had completed the new constitution of May 8, 1791, which promised to give union and vigor to the nation. Catharine, while at war with Turkey, had approved of it, like Frederic William of Prussia, who had his war with France. But scarcely were these wars finished, when Poland was treacherously attacked from both sides. Russian army of 100,000 men was sent to support the aristocratic faction that had formed the confederation of Targovitza against the constitution. The nephew of the king, the future French marshal, Joseph Poniatowski, in vain led the Polish army against them; Kosciuszko proved in vain to be a worthy disciple of Washington. The king, persuaded by Catharine, deserted them, and went over to the confederation, and the second partition of Poland followed, executed by Russia and Prussia alone. The Russian cannons compelled the diet of Grodno to sanction it (1793). The great rising of the betrayed nation in the following year commenced with the massacre of the Russians, and with glorious victories, under Kosciuszko as dictator, but ended with his defeat at Maciejowice (Oct. 10), and with the taking of Praga (Nov. 4) by Suwaroff, who repeated there the slaughter of Ismail and Bender. "Bravo, fieldmarshal!" was Catharine's answer to his re-port: "Hurrah, Praga, Suwaroff." The three great neighbors of Poland now took the whole of it, and destroyed even its name (1795). A year before, Catharine had annexed Courland to Russia. She now undertook a war against Persia, when she died of apoplexy, after an agony of 30 hours, leaving her empire, so greatly enlarged, to her son Paul.—Catharine was possessed of great talents, susceptible of great ideas, and showed often a manly spirit and energy; her ambition appeared grand, but at the same time she was a woman in caprice, a slave of her sensuality and vanity, extremely selfish, and sometimes cruel. Her numerous favorites, some of them her tools, and some her masters, were elevated by their official situation in the palace, by privileges, promotions, and presents, to dignity in the state; while she was, on the other hand, prompted by the love of glory to flatter the representatives of public opinion, particularly in France, to invite Voltaire to her court, to call D'Alembert to complete the French Encyclopédie in St. Petersburg to suffer the familiarities of Diderot, to have a

regular literary write herself se... mote literature and ture, in her empire; w rea tempt the abolition of many app tresses, cities, canals, ho organize exploring experieurs on to annex and to conquer. She had of being called the Semiramis or being ranked by philosophers wan and Solon, of hearing the words of "Light comes now from the North." glory was a transient applause; her undertaken for show, vanished without her works, mostly but commencements, c bled before her death; her civilization rupted Russia, and left it as barbarous as CATHARINE, SAINT, a saint of

CATHARINE, SAIRT, a saint of of Rome, whose anniversary is celeu a Nov. 25. She was a virgin of A is said to have suffered martyrd min. The military order of the anig Catharine, on Mount Sinai, was established the protection of the pilgrims who worship at the tomb of the saint, who worship at the tomb of the saint, where her corpse we to have been found. St. Catharine was use to have been of high descent, and to sessed remarkable mental attainments, she has been often chosen as a patron of of philosophy. Several of the grantsters have furnished pictures of St. the most beautiful is that by Correspondent.

the most beautiful is that by Correct CATHARINE OF ARAGON, V prince of Wales, and of King knowny England. She was the daughter of 1 of Aragon and Isabella of Ca born in 1483, in the city of Alcaus while her mother was engaged in tion against the Moors, died in Granada was not finally surrendered 1 9th year of her age; and much of l hood was actually passed in the ro At an early age, in accordance with tom of the time and the policy of h try, she was betrothed to the ve Arthur of England, son of He never was marriage contr auspices. Catharine had au ents, dignity, virtue, piety, and proout her coldness, austerity, fanatic zeal. She had all the dark-glov stately beauty of her native land: a. per, a kind heart, a gracious the young prince to whom she wa was handsome of person, emine and excellent of disposition. the princess and her train but a fierce storm drove her of Castile; and it was not would bleak and gloomy weather, that sh Plymouth, and was received 1 pomp and splendor of a by the joyful greetings of western counties. On of St. Catharine, her p

or, she made her solemn entrance to l over London bridge, whence she connucted to the cathedral of St. Paul, thence to the bishop's palace at Lambeth she was entertained on that night, and one intervening, as well as on that followthe wedding ceremonial, which was per-lon the feast of St. Erkenwald, Nov. 14, It is well here to state, that it was d on oath, many years afterward, when necessary for reasons which then w establish the facts of the conjugal rethat they lived as man and wife happily er at Ludlow Castle; but it was for a time only, as Arthur died of the plague in 6 months after the consummation of the On the death of Arthur, Henry or York, who had been educated for the and was intended to hold the archbishwon York or Canterbury, became prince of and heir to the crown; and it was at proposed by Henry VII., and acceded to r ferdinand, contrary to the wishes of the widow, who was now in her 19th year, who wrote to her father earnestly deprethe alliance, though professing entire ce to his wishes, that she should be sierred as soon as Henry, who was only in 12th year, should arrive at the age of purty. A dispensation was easily obtained in the reigning pontiff, Julius II., and ceremony of betrothal took place at the ase of the bishop of Salisbury in Fleet street, ne 25, 1503. For several years Catharine ided at the court of England, but on Henry aining his 15th year, his father, who had t his own fair and virtuous wife, and who I it in his mind to contract a marriage himwith Joan, the elder sister of Catharine, , widow of Philip of Burgundy, until he and the union impossible owing to the incure insanity of the lady, compelled him to ena protest against his marriage with his broths widow. This protest was kept strictly a te secret, nor was its existence ever known suspected until it was produced years after-rd, in order to give a color to the proceedin the case of the annulment of the mar-

At this very time, however, so far from ...ing the lady or wishing to avoid the tch, Henry was violently in love with Cathne; and his father actually took measures restrict their intercourse, as fearing lest they ruld contract a clandestine marriage. Not y long after this interlude, however, in the r 1509, Henry VIII. succeeded to the crown the demise of his father, and almost his first was to hurry on his marriage with Cathae. It was celebrated at Greenwich on the r of St. Barnabas, with great pomp and recing, to the delight of her father, who celested the event with grand festivals and tilts, er the Moorish fashion, with the jerced, in For many years the marriage was hapand prosperous; the queen lent herself to the e of her husband for pomps, pageantries,

maskings, and diversions of all kinds; accompanied him in his royal progresses; moderated his hasty temper; ever interposed on the side of mercy and justice; in every way exercised a beneficent influence over him; and used her power only for his own good, and that of his people. During his absence in the conduct of the war with France in 1518, Henry left her the sole regent of the kingdom; and on his return, in the following September, he rode post from Dover to Richmond incognito, to surprise the queen, and there, to borrow the words of Hall, "was such a loving meeting, that this very time he was false to her, with Elizabeth Taillebois, who was his first, and continued for many years his only mistress, until he be-came enamored, first of Mary, and then of Anne Boleyn. In the year 1516, having been already twice a mother of princes, who did not long survive their birth, Catharine bore a girl, who was called Mary, after her aunt, the beautiful queen of France, and who was afterward of unhappy memory as the persecuting queen of England. Eighteen months passed, and she became again the mother of a boy, who again died as soon as he saw the light; a disappointment which troubled Henry so much, that he publicly avowed his son by Elizabeth Taillebois, and created him duke of Richmond. In 1520 occurred the famous field of the cloth of gold, memorable in the life of Catharine for the fact that then Henry first became acquainted with Anne Boleyn. In about 2 years afterward, hearing that Anne was betrothed to Henry Percy, son of the duke of Northumberland, he took so much pains to break off the match by the aid of Wolsey, as proves that he was already desperately enamored of her. The lady, however, who did not care to be his concubine and saw no chance as yet of becoming his wife, was extremely indignant, and never forgave Wolsey his share in the matter. In the year 1527 she was recalled to court, which she had left in anger, and was reinstated in her old office of maid of honor, her father being created Viscount Rochefort. From this time forth, Catharine's life was as miserable as her conduct was From this moment Henry irreproachable. was determined to abolish his marriage with Catharine, and to make the maid of honor, who had perhaps thus far preserved her innocence, his queen. The mock trial of Catharine, her appeal to Rome, her beautiful address to her husband, her leaving the court as one wherein she could not have justice, are facts familiar to all readers of Shakespeare. For 6 long years the cruel agony continued; but when, in 1533, contrary to all Henry's hopes, the marriage of Catharine was declared by the council at Rome to be valid, Anne, who had been now some time almost openly his mistress under the title of marchioness of Pembroke, being pregnant, a secret marriage was resorted to, the old one being yet undissolved in order to legitimate the unborn child, whom Henry in his incene anxi-

ety for an heir had predetermined to be a son. At this time Catharine was expelled from Windsor, and informed that she was no longer queen, although she was in all respects as much and as legally so as ever, when she went her way meekly with her ladies, quitting the royal abode in which she had passed so many happy and unhappy days, with the beautiful and touching words: "Go where I may, I am his wife, and for him ever will I pray. never again saw her husband or her child. Until after the public marriage of Anne, she was allowed the title of queen and the empty honor to be served on the knee, and to be treated with the external deference due to the rank which had been so rudely wrested from her. We know only of Catharine's life during her seclusion, between her abandonment and her divorce, that her time was passed among her faithful ladies in acts of charity, devotion, piety, varied only by the feminine arts and occupations of embroidery, to which she had always been addicted. Wherever she lived, the poor inhabitants of her neighborhood profited by her goodness, loved her, prayed for her, followed her with their sighs when she was re-moved from among them. In the mean time, finding that he could not have the marriage annulled at Rome, Henry determined that he would have it done in England, and to that end, that he would overthrow the church of Rome, build up an Anglican church, of which he would be pope himself, with a college of prelates and a clergy of his own, who should do his business in clerical matters, as his ministers did in civil affairs, at his sole bidding. All this Cranmer, who was raised to the archbishopric of Canterbury, vacant by the death of Warham, undertook to do for him, and speedily effected. first step was to open his court at Dunstable, for the trial of the case of Queen Catharine's marriage; and as she steadily denied the validity of the court and its jurisdiction, and refused to appear, he pronounced her contumacious, and declared the marriage void and of no effect from the beginning, as incostuous and consummated in defiance of divine prohibition. The princess Mary was declared illegitimate, and Catharine was desired to abstain from the title of queen and content herself with the style of dowager princess of Wales. She, however, declined to renounce her title, and died, leaving a letter to her husband concluding with those touching words: "Lastly, do I vow that mine eyes desire you, above all things."

CATHARINE or BRAGANZA, wife of Charles II., king of England, born 1638, died Dec. 31, 1705. She was the daughter of John IV., after 1640 king of Portugal, and brought her husband, in 1662, boside a rich dowry, Tangiers in Africa, and Bombay in India. She met at the court of the dissolute Charles bitter mortifications, which, however, she soon resigned herself to suffer with equanimity and mildness. Lord Clarendon says: "The queen had beauty and wit enough to make her-

self agreeable to the king; yet according to the de and di country, bred in a seen only the w conversed with the reand, without doubt, ... her in enough disposed to be one of And from this restraint she was call be a great queen, and to a free conve in a court that was to be upon the formed, and reduced from the licentious age to the old rules and had been observed in better regular and decent c position of men and wou clined to submit, nor the some struggle she submitted. ~ the tious conduct, and from that time live terms with him till his death." against her of plots in favor of t religion were received favorably by of commons, but rejected by the los the death of Charles (1 , she was England with attention turned to Portugal in 1650. country by her brother, Don Et she proved her ability in the war wim which she carried on with firmness sacess, though already 67 years old.

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CATHARINE OF FRANCE, OF OF VAL of England, born in Paris, Oct. 27, 1 the abbey of Bermondsey, Eng., J. She was the youngest child of Ch. France, and his queen, Isabella or Her father having become mother being absorbed by 1 itics, Catharine, as well as sisters, was utterly neglected a fancy. She became, however, a so much so, that Henry V. of lasserted his claim to the crown plied for her hand, but demanded dowry, consisting mainly in 1 of France declining these te vaded the country, and, a Agincourt and the capture or his application, which was th Meanwhile, entertained. taken place: the duke of Fearless, had been **ate** Philip breathed nothing Tel the dauphin Charles; Isaucua ! on destroying her own son; a.... into negotiations with Henry whi the treaty of Troyes, May 20, 1. Henry V. was to receive the h arine and succeed to the throne of] the death of Charles VI., the kingdom being placed in l time. "On Trinity Sun Monstrelet, "the king of l lady Catharine at Troyes, in which he lodged. Gr nificence were displayed by twe had been king of the whole wot. dal music was the

was taken to England and crowned 1421. Henry, being obliged to return ce, left his young wife in England, she gave birth, Dec. 6, to a son, after-Henry VI. She was soon recalled to h where she found her husband dying. tely after his death (Aug. 81, 1422), his was proclaimed king of France and Catharine now secretly married "udor, a handsome Welsh knight, who, to some chroniclers, was the son of a or Beaumaris, while according to others lescended from a prince of Wales. Susious were awakened among the guardians of roung king, who behaved toward her with mess which is believed to have precipiner death. Her eldest son by Owen Tuund of Hadham, was the head of the for minily who ascended the throne of Enghalf a century later. ATHARINE DE' MEDICI, the queen of ry II., and mother of Francis II., Charles , and Henry III., kings of France, and only daughter of Lorenzo de' Medici, born Florence in 1519, died in 1589. In 1538, she was but 14 years of age, the pope, at VII., her uncle, negotiated the marof Catharine with Henry, duke of Orleans, nd son of Francis I., who, it is said, would have consented to the match, but that he sure that Henry would never ascend the ne of France, and that he was in extreme t of money, with which the pope was pre-d to supply him. Entering the court of ice in a somewhat secondary position, she ied herself to conciliate all parties, win all ons, and be every thing to all persons, afng in the mean time to care nothing for rs of state and to shun the turmoil of busi-When she came to France, the duchess ampes, and the celebrated Diana de Poitiers, ward duchess of Valentinois, were ostensi-the mistresses of her father-in-law, the king, of her husband; and to both she assiduously her court, though they notoriously hated another. Nor when her husband became, by leath of his eldest brother the dauphin, and equently by the death of his father, the of France, did she alter her policy or inne, whether in the affairs of state or in his I and domestic arrangements, with her hus-I, or with his mistress. The duchess of intinois was virtually queen of France, l, at a grand tournament held at the of Tournelles, given in honor of the riage of his eldest daughter, Elizabeth, with ip, king of Spain, in 1559, a splinter from broken lance of De Lorges, count of Montery, entered the eye of Henry, and cut him t in the midst of a splendid and victorious er. By his death his son, Francis II., a ate stripling, weak both in health and inct, lately espoused to the beautiful young n of Scots, the hapless Mary, who was, on mother's side, a Guise de Lorraine, succeed-) the throne, and the ambition of Catharine

flattered itself at once that she was now about to grasp position. But she was disappointed; for the weak and uxorious king was wholly under the influence of his beautiful bride, and she was as completely under the rule of her maternal uncles, the celebrated Le Balafré, Francis duke of Guise, and the cardinal Lorraine, who were in no sort favorable to the schemes of the queen mother. Francis about this time began to suffer from constitutional earaches. Catharine, who cared nothing for religion, connected herself with the Huguenot leaders, Condé, Coligni, and the king of Navarre, and a plan was laid for seizing and imprisoning the young sovereigns at Amboise, bringing the Guises to the scaffold, and governing the realm by a council of regency, composed of the Huguenot princes under the guidance of Catharine. The plot, however, took wind; the princes were compelled, in order to avoid the suspicion of complicity in the conspiracy, to witness the alaughter of their partisans; while Catharine, finding that their arrow was shot in vain, immediately deserted them, and joined the party of the Outholic league. The next plan was to assesssinate the duke of Condé, in the presence of both Francis and Mary at Orleans, which city they were about to visit in state, on a royal progress; and on Francis positively refusing to give his assent to the murder, one of the Guises is said to have exclaimed: "Now, by the double cross of Lorraine, but we have a poor creature for our king!" It seems more than probable that the death of Francis II. was at once resolved, and there is little doubt that he died of poison, dropped into the porches of his ear while alseping, not without the privity of Catharine, who, by the accession of Charles IX., a minor, succeeded as regent (1560) to the actual if not the nominal sovereignty of the realm. She now gave full swing to her atro-cious genius. She first plunged all her children, in the flower of their youth, into such a vortex of licentious pleasure and voluptuous dissipation, that, as she intended, they were speedily divested of all moral sense and unfitted for every sort of mental activity or exertion. It was on the occasion of the marriage of her daughter Marguerite de Valois, with Henry of Navarre, that Catharine prevailed on Charles to give the orders for the fatal massacre of St. Bartholomew's, executed on Aug. 24, 1572, on the signal given by the tolling of the bell of St. Germain l'Auxerrois. From the moment of that terrible event, his consent to which had been wrung from him most reluctantly, and which it is believed he would have counteracted when it was too late the unhappy Charles was a prey to the most horrible tortures of remorse, nor could be conceal the detestation he felt for the mother who had plunged him into such an abyse of blood and guilt. Catharine, it seems, had never loved him, nor Henry either, who was now absent in Poland, of which remote country he had been elected king, and whither he had gone reluct-

antly, at her urgent solicitation, amounting almost to compulsion. Francis, duke of Alencon, was her favorite, as of a spirit the most kindred to her own; and it is probable that her anxiety to have Henry far distant from the scene of action, arose from a desire to enable the son of her choice to avail himself of any contingency that might occur, in order to usurp the throne during his brother's absence. Concerning the mode and causes of the death of Charles IX., there exists considerable doubt. It is more than suspected, however, that he was poisoned by his brother Francis, with the connivance of his mother, by means of a treatise on hawking which had been thrown in his way, that being a sport of which he was passionately fond, with its leaves gummed together with some poisoned gluten, so that when he moistened his fingers at his lips to disengage the pages, he took in at every touch the deadly medicament. If it were so, it was a lost crime; for, on hearing of the death of his brother the king, Henry, in an evil hour for himself, escaped by stealth from the throne of a country whose people loved him, and came to claim that of a land where he was both hated and despised. On his return, he threw himself wholly into the hands of his mother, who again plunged the country into religious civil wars, in which Henry IV. of Navarre gained all the glory, and Henry of Guise all the power, until the latter, attempting to usurp the sovereign power of the realm, was assassinated by Henry's orders in the royal cabinet, while his brother the cardinal was on the next day murdered in prison. coup d'état is so exactly in keeping with the character and policy of Catharine, and corresponds so closely with her plan for taking off the prince of Condé, in the reign of Francis II., that we can scarcely err in ascribing to her the conception of the scheme. It was the ruin of Henry, of herself, and of all her wishes as to the succession of the crown of France; for, how careless and indifferent soever she might be as to matters of religion, she did not certainly desire that a Huguenot and a Bourbon should ascend the Catholic throne of the Valois. Such, however, was the result of her machinations. The murder of the Guises united all Catholic France against Henry III., and he found that he had now no option or alternative but to call Henry of Navarre to his assistance, and to put down the now rebellious Papists by the forces of the late rebellious Protestants. Henry of Navarre, who was now, by the death of Alencon, the next heir to the throne of France, readily assented, and on bringing up his forces the 2 princes laid siege to Paris, which was defended by the duke de Mayenne, the younger brother of the murdered Guise. But while the siege was pending, Henry III. was himself assassinated by a fanatic monk, Jacques Clement, probably instigated by the Guises, on Aug. 1, 1589, in the camp at St. Cloud. Henry IV. succeeded him, and did much to heal the wounds which had been inflicted on France

by Catharine de' Medici.—See Chai Francis II., Henry III., Henry I' Tholomew Massacre.

CATHARINE of Sienna, saint, le died April 29, 1380. She entered at of age the order of Dominican nunmarkable superiority of her natural ments, joined to her extraordinary graces, rendered her one of the ment ous and influential persons of her ti-restored the Florentines to the favor ory XI., and exhorted that pontiff Avignon for Rome. She took par schism of that time, and wrote in d Urban. Her zeal for the conversion ners knew no bounds, and the most could not resist her exhortations to a life. Her charity to the poor, and devotion to those who were suffering most offensive maladies, were also I She was canonized by Pius II. in 14 anniversary is celebrated on April works of this saint are principally upon devotional subjects, and letter in very pure Italian; she is also the author of some Italian poems.

CATHARINE FIESCHI ADORN born in Genoa, 1447, died Sept. 14, 151 ther was viceroy of Naples. She is sai been one of those rare children who li perfect practice of Christian virtue f early years. At the age of 13 she was d consecrate herself to God in the religibut she yielded in obedience to her parmarried her at the age of 16 to Julian. gay young nobleman of Genoa. Her him was for 10 years a series of sorrov ings, and mortifications. He was I brutal, and prodigal in the use of the which she brought him. In a short t found themselves reduced to poverty patience and good example caused his tion, and he died a penitent. After 1 Catharine was many years mother su the great hospital of Genoa. Pract greatest charity, she performed the offices and dressed the most loathson She also extended her care to the sick fering throughout the city. St. C next to St. Theresa, is the most female writer that the Roman Catholi has produced. Her 2 principal treatisfor the most part may be considered as ords of her own experience, are entitle gatory," and "A Spiritual Dialogue works have not hitherto been within t of general readers; but an American tion of her treatises and of her life, w her confessor, Marabotto, has just been ted (1858).

CÀTHÁRINE PARR, the 6th and lest relict of Henry VIII. of England, date uncertain, died Sept. 30, 1548. She i daughter of Sir Thomas Parr, and i first to Edward Burghe and secot Latimer. After a 2d widowhood or

king of England married her, July For the time in which she lived very well educated and intellectual ad had studied the Holy Scripmuch attention. She was a zealous partisan, and would often engage in with the king as to the propriety of the reformation. She even patron-Askew, who was racked and burned n 1546, and perused the prohibited r disputatious turn of mind brought est peril on one occasion. After one guments on religious subjects with d. Henry was much incensed at her. instigation of the bishop of Winve a warrant for her committal to in the charges of heresy and treason. d immediate intelligence of her danl on the king in the evening, and conversation to the old topic, exregard for the king's theological "No, no, by St. Mary," he replied, ou too well. Ye are a doctor, Kate, ruct us and not to be instructed by hich she adroitly rejoined "that it ad much mistaken her freedom in th him, since she did it to engage ourse, to amuse this painful time of y, and that she might receive profit ed discourse." "And is it even so?" ing; "then we are perfect friends e following morning the king took the garden with Catharine, and at it the chancellor, Wriothesley, who ng of the reconciliation, came with to execute the warrant for the arrest. en. The king flew into a passion, thesley a knave and other epithets, im begone. This experience made nore prudent for the future; yet her again great when Anne Askew was order to ascertain her accomplices t the queen of heresy, but the adtitude of the sufferer was the salvaroyal patroness. She retained her he king's affections up to the time 1 in 1547, and received a legacy of m him in addition to her jointure. er the king's death she was married husband, Lord Seymour, high admiand and brother of the duke of Somrotector of England and guardian of

She did not long survive this marlied in childbirth unregretted by her
ho repented of his union with Cathaspired to the hand of the princess,
queen Elizabeth. She is one of those
nages who have won a position in
ic of letters. She wrote "Queen
Parr's Lamentations of a Sinner,"
published by Lord Burleigh in 1548.
etime she published a volume of
I meditations. Her letters are pretrype's annals, Hayne's collection of
rs, and in the Ashmole collection.
yed scholars to translate from the
vol. IV.—37

Latin into English Erasmus's paraphrase on the New Testament, and wrote a Latin letter to the princese, afterward Queen Mary, exhorting her to translate the paraphrase on St. John. OATHARINE PAULOWNA, queen of Wür-

CATHARINE PAULOWNA, queen of Wartemberg, grand princess of Russia, daughter of Paul I. and younger sister of Alexander I., born May 21, 1788, died Jan. 9, 1819. In 1809 she married George, duke of Holstein Oldenburg. Having lost him in 1812, she accompanied her brother Alexander on his campaigns in Germany and France (1818-'14), to Paris, London, and the congress of Vienna (1815), assisting him by her talents and resolute spirit. The marriage of her younger sister to the prince of Orange is said to have been effected by her influence. In 1816 she married William, crown prince of Wurtemberg, whose acquaintance she had made during her travels. During the famine of 1816 in that country she proved her benevolence by the formation of female associations and an agricultural society. She was active in promoting the education of the people. She left 2 sons by her 1st, and 2 daughters by her 2d marriage.

OATHARISTS (Gr. malapos, pure), a Christian sect which, between the 11th and 14th centuries, spread over all Europe, and was most powerful in Italy and the south of France. Their doctrines and institutions bore an oriental impress, but were peculiarly elaborated and modified by the scientific spirit of the western church. Akin to the early Gnostics, the Manichmans, Euchites, Bogomiles, Psulicians, Albigenses, and Waldenses, they are not to be confounded with either of these. There were 2 parties of Catharists, one accepting absolute dualism, and supposing 2 opposite principles to subsist from all eternity, with 2 creations corresponding to these principles; the other deriving all evil and imperfection from the apostasy of a higher spirit, and main-taining a limited dualism. They agreed in regarding the sidereal system, and every thing visible here below, as perishable and evil; but as having its correspondent in an upper world in a form adapted to that higher region of existence. According to one party the evil principle stale into the heavenly world and seduced the souls which the good principle had created to come down to earth, where he confined them in bodies of his own creation. According to the other party, the orderer of matter was originally a good but now a fallen spirit, who, ambitious to set up an independent kingdom of his own, per-suaded a third part of the angels to apostatize with him. The former held that there have never been more souls on the earth than on the first day after they were misled thither by Satan, and that by process of transmigration and return to heaven their number is comstantly diminishing; the latter supposed originally only 2 human souls, from which all others have proceeded. Both parties rejected the whole, or nearly the whole, of the Old Testament, which they affirmed to be a revelation of the evil principle. Ohrist, they

thought, brought with him from the celestial regions a higher ethereal body. He was sent by God to recover men from the earthly sphere in which they are bound, and to bring them into harmonious connection with the upper world; and the final result of his coming will be the destruction of the creation produced by Satan, and the return of all visible things to the original chaos, to which wicked spirits shall be banished.—The ideas of the Catharists were rather popular than metaphysical, and the sect was more influential by the ethical than by the speculative part of its system. They all agreed in opposing the prevalent traditional and ceremonial usages, and attempted to realize the idea of an invisible church. They renounced baptism by water, and laid great stress on the baptism of the spirit, which should be performed by the imposition of hands in connection with prayer. Their church edifices had neither images, cross, nor bell, and their worship consisted only of the reading and exposition of a passage of the New Testament, followed by the benediction, which was received kneeling. Though, in some respects, the precursors of the Protestant principle, they were yet essentially removed from it by the merit which they ascribed to works Their over faith as a condition of salvation. rigid asceticism admitted neither of animal food, conjugal relations, nor the possession of earthly Yet this standard was rather ideal than actual. It was attained by the perfecti, the esoterics of the sect, but was modified in the case of the credentes, who constituted the large exoteric portion. From the former, who were popularly known as "the good men," and who copied the example of Christ by wandering about homeless, and in poverty, were chosen all the officers of the sect.—The Catharists were zealous disseminators of their principles. Originating in some Greek-Slavonian cloister of Bulgaria (whence one of their names, the Bulgarians), they prevailed for several centuries in the western countries of Europe, maintaining themselves in Bosnia in spite of hostility, till near the close of the 15th century, when the sect passed over into Mohammedanism. In 1035 the first Catharists were discovered in Italy, near Turin, and their chief was burned; but within a century from that time Catharist churches and dioceses were formed throughout upper Italy and France. It has been maintained, without sufficient authority, that Dante belonged to the sect, was even a preacher to a congregation of Catharists at Florence, and that the Divina Commedia was a pasquinade in their favor against the prevalent church. St. Bernard travelled through the country south of the Alps, trying in vain to convert them, and found them protected by princes and nobles, whose sons and daughters were intrusted to them for education. In 1167 they held a synod near Toulouse to arrange uniformity of policy and doctrine. They spread throughout Spain and Germany, but though some of them were discovered in London in 1210, they seem to

have made little progress in England. The availed themselves of the disputes between the popes and emperors to spread their detains and in the 12th century dared to elect for the selves a pope in France, and in the 12th century another in Bulgaria. In later time the knights templars were asserted to have been Catharists. The courage and calmoss with which they uniformly met death for their finite excited the admiration of their friends, and an attributed, by their enemies, to disbelied upport.

OATHARPINGS, in nautical parisms, app serving to brace in the abroads of the low masts behind their respective yards.

CATHCART. I. WILLIAM STAW, carl alle ish military officer and diplomatist, born is lilk died June 17, 1843. According to a custor Scottish gentry, he completed his education taking a degree in law, although without into tion of practising that profession. On the be ing out of the American war he entered the l ish army, and speedily rose to be side-to Gen. Spencer Wilson and Sir Heary C Subsequently he commanded the 29th regi of infantry, and finally was appointed quaster general. Recalled to England, he the Walcheren expedition with the rank of adier-general. Huving distinguished hi Bommel and elsewhere on the retrest, here ried back the remains of the cavalry to I land, where he was promoted to a higher In 1807 he took his seat as a repre peer of Scotland. The same year he was apointed commander-in-chief of the tree tined to act against Copenhagen, and on of that city and capture of the Danish float created a peer of England. In 1813 he was as minister plenipotentiary to Russia. The peror Alexander being then with the s Lord Catheart joined him at head-que where he remained during the camp was a witness of the interview between sovereigns of Russia, Austria, and Pro Dresden he stood but 2 paces from when that general received his death ventered Paris with the allied sovereign subsequently acted as British plenipotenti the congress of Vienna. On the fall of parte he again repaired to Paris, the treaty of peace which followed Wa An earl's coronet - recompensed ti vices. Several succeeding years of h were spent as minister at the court of II. Sir Gronge, a British general, see e preceding, born in London, May 12, 1794 Nov. 5, 1854. He was educated at Ebst Edinburgh, and entered the army in 1626. father having been soon after minister to Russia, young Cather nied him as attaché, and was sub secretary at the congress of Vic the army, he served as aide do conington at Waterlee. The return of him on the list of lieutenant-o rank he held commands for some y

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Sectia and the West Indies. In 1834 he retired a half pay, but in 1837, in consequence of the troubles in Canada, he was placed in command of the troops and militia south of the St. Lawrence. Returning to England in 1844, he again retired on half pay, receiving the honorary appointment of governor of the tower of London, which he retained until 1852. War with the Caffres having once more broken out, Col. Catheart was selected to assume the governorship and command of the army at the Cape of Good Hope. By a succession of well-executed maneuvres, he drove the Caffres back from their coverts, and removed them beyond the limits of the colony. Appointed to the 4th division of the army in the Crimea, he fell fighting gallantly at the bettle of Inkermann

ly at the battle of Inkermann. CATHEDRAL (Lat. cathedra, a seat), a church containing a bishop's throne or seat, the chief church of the diocese. Its usual form is a Latin or Greek cross, and it is not distinguished architecturally from the baslica. In the old basilicas there was a transverse hall at the end, not intentionally resembling a cross; but more modern architects, perciving the resemblance, changed the position of the transept, making the church cruciform. The church of St. John of Lateran, at Rome, founded by Constantine, is the episcopal church or cathedral of the pope, and bears over its chief portal the inscription, Omnium urbis et orbis ecclesiarum mater et caput, "mother and head of all the churches of Rome and the world." At its chief altar none but the pope can read mass, for it covers another ancient altar at which the apostle Peter is said to have officiated. The basilica of St. Peter's at Rome may be mentioned as surpassed by no cathedral in antiquity and splendor, and equalled by none in magnitude. In A. D. 90, St. Anneletus, bishop of Rome, who was ordained by St. Peter himself, erected an oratory on the site of the apostle's burial, after his crucifixion. In 306 Constantine built a basilica on the spot. In 1450 Nicholas V. commenced a building on plans of Bernardino and others. Paul II. continued it, and Julius II. secured the services of Bramante, whose plan was a Latin cross and an immense dome on arches springing from 4 large pillars. The latter died in 1514, and Leo X. appointed Giuliano Sangallo, Giovanni da Verona, and Raphael, who strengthened the pillars for the dome; but Sangallo dying in 1517, and Raphael in 1520, Leo employed Baldassari Peruzzi, who changed the plan to a Greek cross. Paul III. employed Antonio Sangallo, who returned to Bramante's plan, but Sangallo died very shortly, and the pope appointed Giulio Romano, who also died. The work was then given to Michel Angelo, then in his 72d year. Paul III. died in 1549, but Julius III. continued Angelo in his place, giving him full authority to change whatever he wished in the building as it then stood. Michel Angelo returned to the Greek cross, again strengthened the piers

for supporting the dome, and formed the plan for it as it now exists. The drum of the dome was completed before he died in 1868. Pope Pius V. appointed Vignola and Pirro, with orders that they should adhere to Angelo's plans. The dome was not finished until 1590 by Giacomo della Porta. Sixtus V. gave 100,-000 gold crowns annually toward its completion. In 1605 Paul V. employed Carlo Maderno, who changed the ground plan back to the Latin cross. The nave was finished in 1612, the façade and portico in 1614. The church was dedicated by Pope Urban VIII. on Nov. 18, 1626. Under Alexander VII. in 1667, Bernini finished the colonnade. The building of St. Peter's, from its foundation in 1450 until its dedication, occupied 175 years; and if we include the work done under Pius VI., 3; centuries pass-ed away before it was completed, during which time 48 popes reigned and died. The dimensions of the church are as follows: length of the interior 602 English ft., length of transept from wall to wall 445 ft.; height of nave 150 ft., of side aisles 47 ft.; width of nave 77-89 ft., of side aisles 21 ft.; circumference of pillars which support the dome 282 ft. The cupola is 198 ft. in diameter. The height of the dome from the pavement to the base of the lantern is 400 ft., to the top of the cross 480 ft. The dome is encircled and strengthened by 6 bands of iron. A stairway leads to the roof, broad and easy enough to allow a loaded horse to ascend. The annual cost of keeping the church in repair is 80,000 scudi.—At Milan the first building was destroyed by Attila, the next one was injured by fire, and the first stone of the present structure was laid by Giovanni Galeazzo Visconti on March 15, 1886. The ground plan is a Latin cross terminated by an apsis. Its dimensions are: length 485 ft.; breadth of body 252 ft., between the walls of the tran-sept 287 ft.; width of nave from centre to centre of the columns 67 ft., which is double the width of the side sisles; height of the crown of the vaulting of nave 158 ft.; height from the pavement to top of the statue of Madonna 855 ft. The interior is divided into a nave and 4 sisles. by 4 ranges of clustered pillars. Fifty-two pillars, each formed of 8 shafts, support the arches of the roof. These pillars are 80 feet high, i. c. base 4 ft., shaft 57 ft. 62 in., capital 18 ft. 62 in.; the diameter of shaft 8 ft. There are fine interior doorways in Roman style. The pave-ment is laid in mosaic in red, blue, and white marble. The cathedral is built of white marble, and covers a space of 107,782 sq. ft.—The duomo at Florence is one of the most beautiful specimens of the Italian-Gothic style. It was begun in 1294 or 1298, with the plan, secording to Vasari, of Arnolfo di Lapo, according to Molini, of Arnolfo di Cambio da Calle, and was finished about 1444. Several architects were employed upon it, among them Glotto, Taddee Gaddi, and Andrea Orgagna. Its complete was intrusted to Brunelleschi, who design

the cupola. The cathedral is in length 887 ft., the transept 884 ft.; the nave is 158 ft. high, the side sides 96 ft. 6 in. The cupola is octagonal in form, 188 ft. 6 in. in diameter, and in height from cornice of the drum to the eye of the dome 188 ft. 6 in. Michel Angelo used this dome as a model for that of St. Peter's. The interior of the duomo is rather dark, the windows being small and the glass darkly stained. The pavement is tessellated in red, blue, and white marble. The frescoes in the cupola are from designs by Vasari. The entire edifice covers 84,802 sq. ft.—Germany has some fine cathedral churches, among which that at Cologne is one of the most imposing Gothic structures in Europe. It was begun in 1248, during the reign of the elector and archbishop of Cologne, Conrad of Hochstedten, but it has remained unfinished. The original architect is The length of the cathedral is 511 unknown. ft., breadth 281 ft., and height of the towers 500 ft. Externally it has a double range of flying buttresses and intervening piers, and a perfect forest of pinnacles. The cathedral of Dantzio was begun in 1343 and finished in 1503. The vaulted roof is 98 ft. above the pavement, supported by 26 slender brick pillars. Around the interior are 50 chapels founded by the chief citizens of the place, as burial places for their families. The great ornament of this building is a painting of the "Last Judgment," attributed to John Van Eyck. It was painted for the pope, but on its way was captured by pirates. Being retaken by a Dantzic vessel, it was deposited in the cathedral in 1807.—In Antwerp is the cathedral of Notre Dame, one of the largest and most beautiful of Gothic buildings in the Netherlands. It was commenced about the middle of the 18th century, and completed in about 84 years. It is 500 feet long, and 250 wide. In 1588 it was much injured by fire. It contains the celebrated masterpiece of Rubens, the "Descent from the Cross."—During the 18th century, architectural art was highly cultivated throughout all Europe, and among the magnificent works of that age, those of France are by no means in the last Chartres, Rheims, Amiens, and Paris each possess beautiful cathedral churches. one at Rheims was commenced in 1211, and dedicated in 1241. It occupies 67,475 sq. ft. cathedral at Amiens was begun 1220, and completed in 1257, but was partially destroyed by fire, and not again finished until 1272. It covers 71,208 sq. ft. The cathedral of Notre Dame in Paris stands upon the spot once occupied by a Roman temple. It is said that a church dedicated to St. Stephen was erected on the same site about 865, in the time of Valentinian I., and was enlarged in 522 by Childebert, son of Clovis. Robert, son of Hugh Capet, undertook to rebuild this church, which was called Notre Dame from a chapel which Childebert had dedicated to the Virgin. But this church was never finished and fell into ruins. The first stone of the present edifice was laid about 1168, by Pope Alexander III., Maurice de Saliao being bishop of the

diocese. The high alter was consecuted in 198 by Henry, legate of the holy see, and in 198 Heraclitus, patriarch of Jerumlus, official if the church. The west front was faithed h Maurice de Sully, the bishop in 1223. southern transept with its portal was es in 1257, and the northern transcpt and ports 1812 by Philip the Fair. The western doors with their iron work were made about 1570-'80 by Biscourette. The dimensions are as folio length 890 ft., width of transept 144 ft., he of vaulting 102 ft., height of western to 204 ft., width of front 128 ft., length of m to transept 186 ft. The pillers of the a are 4 ft. in diameter, resting on gravelled is 18 ft. below the surface. The style of are 18 ft. below the surface. The style of srei-tecture is pure pointed. The nave and sisaisles are paved with marble; the si the choir are paved with stone and black me-ble. An immense vault, extending the cain length of the nave, was constructed in 1866 in the interment of the chaplains, &c. The en is very fine, 45 ft. high, 36 in breadth, and is 3,484 pipes. The interior of Notre Dame is at so rich in decorations as the exterior. The se of the nave are pointed; the piers are circ pillars, with large and well-formed capital.
The pillars of the aiales are alternately circuit and clustered. The cathedral covers 64,165 s. f. -England has many cathedrals worthy of particular mention. That at Salisbury is the perfect and beautiful specimen. It was four by Bishop Richard Poore, in the year 123 the reign of Henry III., and was finished in 1260. Its plan is a double cross, in extreme length outside 480 ft., length of trans ft.—St. Paul's, London, was commenced 1675, Sir Christopher Wren being the archi and was finished 1711. It is built of fi land stone, in the form of a Latin cree length being 500 ft., the transcot 26 long, and the west front 180 ft. wide. towers at the west front campanile are feet high. The dome is thrice the heigh the roof, being 865 ft. from the ground, a from the floor of the church, and it is 145 % in diameter. Simple ratios exist between t principal dimensions. The windows are unit 12 ft. wide by 24 high, the sieles 19 ft. width by 88 in height; the central evence i by 84 ft.; the domed vestibule at the we 47 ft. square by 94 ft. high. The are elevation has two orders, the lower bel rinthian and the upper composite. or lacks in ornament, disappointing of has seen the cathedrals on the con still graver defect is the darkness t dome, the light being scentily admitts well distributed. It was begun an under one architect, with a few m tions. The organ was built in 1664 by B. Smydt. St. Paul's is the 5th cathedral erope in extent, being smaller than St. P. and the duomos at Florence, Milan, and At The corner stone of a new a cathedral was laid in New York, Aug. 15, 1

IELINEAU, JACQUES, generalissimo of leans in the revolt of 1798 against the mary government of France, born at lauges, Maine et Loire, Jan. 5, 1759, St. Florent, July 14, 1798. After having aged for some time in the business of r, who was a mason, he became a linen and after the outbreak of the French m, was poor and embarrassed with the a large family. His religious devotion reat, and so well known in his province, vas called the saint of Anjou. A bloody ich took place at St. Florent, March between the republican troops and the , on the occasion of a levy for the army g to a recent decree of the convention, he spirit of Cathelineau, and at the head ly of youths he attacked and expelled isons of Jallais and Chollet. As the and courage of his bands, though withlar arms, were continually increasing, it several engagements, mostly with After the taking of Saumur (June 18), t of greater union in the operations of gents being generally felt, Cathelineau ated to the dignity of general-in-chief, ost popular of the leaders. He marched Angers, which made no resistance; but k on Nantes, though undertaken at the a large collected army, and though the no fortifications, and was defended only regiment of the line, ended, after a ay of desperate struggle (June 29), in ersion of his troops. At a last and iccessful effort to take the city, Catheas wounded and carried to St. Florent, e lived for a fortnight. After the resof the Bourbons, his surviving children varded with pensions, and a statue was to his memory at his birthplace, which ken in 1832 by the soldiers of Louis -One of his sons, who in 1815 took an anti-Napoleonic movement of the was shot in 1832 while engaged in piracy of the duchess of Berry.

IELINOT, CATELINOT, or ILDEFONSE, a tine monk, born in Paris in 1670, died at niel, June 15, 1756. He was destined sulpit, but devoted himself at the abbey nes, under the instructions of Calmet, o-laborer he afterward was, to literary. He wrote a Bible dictionary, and also ted the supplement of Calmet's, which

ted the supplement of Calmet's, which alone been published of all his numer-

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IODE (Gr. kara, downward, and odos, The poles of the battery were called by raday electrodes. To the one which is to receive the electric current, and therefore called negative, he gave the cathode; and to the other, which is supflow over with electricity and to be cony in a positive state, the name anode was In the wires proceeding from the bathelectric current is supposed to pass that from the copper, round to the

zinc plate; and the term poles is applied to the ends made by a break in this wire. As the electricity flows from that connected with the copper, this is the positive electrode, or the anode; while the opposite pole leading to the zinc plate receives the current, and is the negative pole, or the cathode. But in the battery itself, the electricity being supposed to be generated at the zinc plate, this is called the anode or positive pole or plate, and the copper the negative. The significance of the terms introduced by Prof. Faraday is explained by his supposing the wires of the battery to be so arranged, that the electric current passing through a body interposed between the poles traverses from E. to W. parallel with the currents supposed to be flowing through the earth. The anode in this arrangement is toward the E. or rising sun, and the cathode toward the setting sun. ELECTRODYNAMICS.

CATHOLIC CHURCH. See ROMAN CATH-OLIO CHURCH.

CATILINE, or CATILINA, LUCIUS SERGIUS, a Roman conspirator, killed in the engagement of Fasulas, 62 B.O. He was the descendant of an ancient but decayed patrician family, and spent his youth and early manhood in a career of profligacy and crime, taking a bloody part in the proscriptions of Sylla, when even some of his own relations became his victims. He was suspected of criminal intercourse with a vestal, and believed guilty of the secret murder of his first wife and his son, committed in order to marry another woman. All this did not prevent him, at that period of moral decline and general corruption, from obtaining important offices and aspiring to the highest dignities in the republic, being able by his mental and bodily powers, of which even his enemies speak with a kind of admiration, to undertake every task. Having been sent as prætor to Africa, he returned in 68 B. C. to Rome, to become a candidate in the next consular election, but was disqualified by a charge of extortion in his province, directed against him by Clodius Pulcher, known by his later enmity to Cicero. The newly elected consuls were convicted of bribery, and Cotta and Torquatus, their accusers and competitors took their places. On these the disappointed Catiline resolved to wreak his vengeance, conspiring against their lives with Autronius, one of the deposed consuls, with Cn. Pico, and others. The first day of the consulship was fixed for the assassination, but Catiline fru ed the attempt by his impatient haste in giving the signal. This failure only served to exam perate Catiline, and to stimulate him to greater undertakings. Ruined by debt and debauchery, he was now bent on forming a new conspirace with the purpose of exterminating the whole body of the senate, murdering all the magi-trates of the republic, and sharing its sway and treasures with his followers. Such at least is the representation of great contemporary witters, whose impartiality, however, may be questioned. The corruption of the times favored his

designs; ruined nobles of all ranks, eager to escape by some change the consequences of bankruptcy, profligates and intriguing persons of both sexes, joined him; many veterans of Sylla, who had squandered their spoils, were found ready to renew the familiar scenes of proscription; the poor and restless populace could easily be used. His chief cooperators were P. C. Lentulus and P. Autronius, ex-consuls, L. Calpurnius Bestia, tribune elect, Cethegus, 2 nephews of Sylla, and others. It was now his interest to be elected consul; he became a candidate, but was again unsuccessful. Cicero was elected with C. Antonius. Catiline, who dreaded the patriotic activity of the former, but counted on the criminal connivance of the latter, now pushed on with greater vigor. The plot was matured; troops were levied, especially under C. Manlius, a centurion of Sylla, in the vicinity of Fæsulæ, in Etruria; arms were provided, the parts of the drama distributed, the lists of proscription made out, and the day fixed for the assassination of the consuls and the general conflagration of the city. The watchfulness of Cicero saved himself and the republic. Fulvia, the mistress of one of the conspirators, was induced to communicate all the particulars; C. Antonius was made harmless by the promise of Macedonia as a province. Informed by Cicero, the senate intrusted the consuls with absolute power to save the republic from the threatening danger. At the following consular election Catiline was again rejected, and in the night of Nov. 6, 68 B. C., he declared in a secret meeting to his ringleaders that the time of action had arrived. Cicero, who knew every thing, summoned the senate, and delivered his first great oration against Catiline, giving full and ample information of all the facts. Catiline was bold enough to be present and to attempt his justification, but his voice was drowned by the cries of "Enemy" and "Parricide" from the indignant senators. and he was left on his deserted bench a spectacle to the assembly. But he was still free, and left Rome in the following night to join the camp of Manlius, leaving the management of affairs at the capital to Lentulus and Cethegus. Cicero now addressed the people in the forum, justifying his conduct; the senate declared Catiline and Manlius enemies of the republic, while legal evidence against the conspirators at Rome was furnished by the communications of the ambassadors of the Allobroges, who, being sent to Rome for the redress of grievances, were tempted by Lentulus to join the conspiracy, and to induce their nation to assist in it. Cicero, who received the intimation from their patron, persuaded them to feign an active participation, and to draw from Lentulus a list of the conspirators, as if by it to induce their countrymen to join in the enterprise. Lentulus and his friends fell into the snare. They were now brought before the senate, assembled in the temple of Concord (Dec. 4); their guilt was proved. Having delivered his third oration

before the people. again convoked t punishment of the trattors. I highly animated. Silanus, the gave his opinion for the imm of them; this was com Julius Casar, who was sati and the confiscation of tuess gave no opinion, but painted the dangers of the state. (and for immediate efforts : the field, made an appeal w the senate, and prevailed. passed, and Lentulus and his e strangled in the night in their was sent against Catiline tonius, but unwilling to he gave the command w They met near Fesules. himself desperately, but battle was lost he threw hu of his enemies, and fell gained by Cicero by t ucreaude of spiracy, is equalled by we color tions against Catiline. conspirator is one of the ductions of ancient h

CATINAT DE La rAUCONNERIE, Isocial DE, a French general, born in Paria, Best. 1, 1687, died Feb. 22, 1712. He entered the army as an ensign, and at the siege of Lille is 1667, so conducted himself as to attract the notice of Louis XIV. His subsequent explain obtained for him in 1688 the rank of listenant-general, and in 1693, after he had convered the greatest part of Savoy, he received the marshal's staff. In 1701 he commanded the army in Italy against Prince Engene, but failing to arrest the progress of the prince, Villeroi was appointed to his place, and Catinat served under him, and in attacking the intrenchments at Chiari he was repulsed and wounded. He commanded in Germany for a short time, and spent the rest of his life at his estate of St. Gratien, near St. Denis.

CATINEAU-LAROCHE, PIRERE MARIE SE-

BASTIEN, a French functionary and lexicogn pher, born at Saint-Brienc, March 25, 1772, di May 22, 1828. He studied at Poitiers, a igrated to St. Domingo, where he pub journal, L'ami de la pais et de l'union was sentenced to death for the opinions w he advocated, but, by the timely of the agents of the king of Fr ceeded in escaping to Cape Hayti called Cape Français), where he 17 of his countrymen, was saved from massacre which broke out in that ci now visited the United States and E and on his return to Paris, in 1797, posed several dictionaries. His printing having been destroyed by fire, ment employed him in variou Once more he visited the pacities. States, and on his return, in 1819, he w missioned to go to Guiana, and s

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mate and resources of that province. His notes

ca that country appeared in 1822.

CATIONS, electro-positive bodies, as hydrogen, the metals, &c., those which go to the esthode or negative pole of the battery, or are found on the positive side of the electrolyte. (See CATHODE, ELECTRODYNAMICS.) Anions is the name of the electro-negative bodies, or those which go to the anode or positive pole.

CATLIN, GEORGE, an American artist known by his travels and residence among the Indian tribes of the west, was born in Wyoming Valley, Penn. His father was a lawyer, and George studied law in Connecticut, and practised for 2 Afterward he devoted himself to painting in Philadelphia, without any previous instruction. Some Indians arriving on a delegation in the city, he was struck with their appearance, and determining to visit their homes, he started from St. Louis in 1882, in a steamer called the 44 Yellowstone," being greatly assisted by Mr. Chouteau, one of the owners of the boat. After passage of 8 months, he reached the mouth of the Yellowstone river, where he was left. He visited about 48 tribes, numbering in the aggregate 400,000 souls, and collected much information concerning their habits and character. He also visited Florida and Arkansas. His letters were published in 2 vols. 8vo, with illustrations (New York, 1841).

CATMANDOO, or Khatmandoo, a town of Nepaul, regarded as the capital of that country, on the E. bank of the Bishnmutty river, 187 m. from Goruckpoor, 53 from Gorkha; lat. 27° 42′ N., long. 85° 18′ E.; pop. about 50,000. The streets are narrow, and the houses (of which there are about 5,000) present a mean appearance, not excepting that of the rajah, and are built of brick, though building stone abounds. Many of the temples, most of which are of wood, are of considerable elevation, and scattered in great numbers over the environs of the town. There are several temples of singularly picturesque appearance. An ancient temple, dedicated to Buddha, built of stone, consisting of 3 lofty pyramids with 2 square apartments, is much celebrated among the Tartars, and a great resort of pilgrims.

CATNIP, or Catmint, the leaves of a perennial herbaceous plant, nepeta cataria, which is very common in the fields throughout the United States, though supposed to have been introduced from Europe. The plant possesses medicinal virtues, so that it is recognized in the pharmacopæias, and is employed as a domestic remedy, but rarely, however, in regular practice. The leaves, which alone are used, are arountic and somewhat bitter and pungent to the taste, and of disagreeable odor. Cats are said to eat them with great relish, and the general impression is that they derive benefit from their medicinal qualities. Catnip is administered in infusion. It acts as a tonic and excitant, and possibly as an antispasmodic and emmenagogue, being frequently given with

reference to such supposed qualities. Toothache is said to be sometimes cared by chewing the leaves.

ing the leaves.
OATO, the name of a celebrated family of the great Porcian house of Rome, several members of which attained high distinction as statesmen, writers, and soldiers; but none so con-spicuously or deservedly as the two respectively known as CENSORIUS and UTICENSIS, both of which names were posthumous, not given by their contemporaries. I. MAROUS PORCUM CATO, surnamed the Censor, and the Elder, was a native of Tusculum; his family was plebeian and poor, nor had acquired any note until the actions of this man gave to it nobility and renown. His birth bears date from the year 284 B. C., and at his father's death he inherited a small farm and cottage in the Sabine country, closely adjoining a similar estate of the patriotic and rustic Marcus Curius Dentatus, with whom he was on terms of intimacy from his early youth, and probably from him he copied some of that austerity of character and carelessness of the graces of life for which he afterward became famous. 219 B. C. began the second Punic war, which may be regarded as a 17 years' duel between Hannibal and Rome. This called out the young plebeian, at the earliest age at which it was admissible to bear arms, that is to say in his 17th year, from his Sabine farm to the service of his country. The battle of Cannes, fought on its own territory, within compara-tively a few miles of its gates, was the greatest defeat and disaster which a sovereign city ever underwent without succumbing to the victor. But Rome was only the sterner and more steadfast after her unparalleled defeat, and was nerved only to greater exertion by her loss In the year following the battle, the same in which Cato first buckled on his armor, the city of Rome, out of a population which, at the la military census, had numbered only in all 270,-218 citizens, had 70,000 soldiers, beside seamen under arms, or something above 1 part of all her male inhabitants. Fabius Maximus was dictator, and under him Cato first saw service s the siege of Capua. During the whole of the 2d Punic war, he was actively employed, and five years later was present, under the general, at the taking of Tarentum; on which occasion he is said to have formed his first acquaintance with Nearchus, the Pythagores philosopher, from whom he learned the prince ples and tenets of a system, the practices of which he had adopted long before. After the termination of the war, he was induced by the representations of a rich Roman, Valerius Placcus, who had property in the same neighborhood to abandon his farm, on which he had hithe lived among his slaves, laboring at their h by day, and at sumest feeding at the same board with them on the coarsest fare, practis-ing the severest austerity, and priding himself on the rude simplicity which he mistook far the essence, instead of one of the exten

was accompanied on his return to the capital of the republic. In 195 B. C. he was elected consul, together with his friend Valerius Flaccus, and made himself notorious rather than famous by his violent opposition to the repeal of the Oppian law, a sumptuary enactment restricting the expenses of women, which had been passed during the public distresses caused by Hannibal's occupation of Italy, and which had served the purpose for which it was intended, and was now properly rescinded. On the expiration of his consular term, during which he conducted a war which had broken out in some revolted districts of Spain to a successful close, and obtained a triumph for his conduct in the same, although not without being accused of perfidy and cruelty, he followed Sempronius, the consul of the ensuing year, into Thrace, where the war against Philip II. of Macedon was yet in progress, in quality of his lieutenant. Three years later than this, the war against connected with a p Antiochus broke out, and he was employed in

that in which one has himself hy all cases acquitted; but the numb sations against him shows the 1 aggressive character of l of constant civil warfare in which the most considerable citizens of against the natural ce of last public employ reconciliation of the sinissa, king of Numidua, ou mu which he adopted his settled ide sity of destroying the rival re that day forth it became his h question was in debate before when voting on it, in the affirm tive, to add the words: "I ve that Carthage be destroyed." place about 149 B. C. severe economy of Cato and sembled that of . Frank

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CATO 579

onsists merely of a series of dry e use of farmers, expressed with , and without systematic arrangebest edition of it is contained in Rustica Scriptores. He left a hunfty orations, extant, although negicero's time; a work on military me of which is incorporated into s of Vegetius; 7 books of history ties, entitled Origines, which have erished; beside a book of epistons, a book of apophthegms, and a norals. Onto appears to have been a neaded, obstinate, nearly one-ideaed strong sense of duty, and a strong what was right, accompanied with to understand that any thing could ss it coincided exactly with his own He had no refinement, and therefore would, if he could, have prevented nt, both of mind and body. ince of corruption growing with the he state; and therefore, hating corseeing no other mode of arresting would have arrested all progress. Porcius Cato, the son of the prehis first wife, distinguished himbattle of Pydna, against Perseus, acedon, under Paulus Æmilius, hter, Tertia, he subsequently maried a few years afterward, while rector. III. Porcius Cato Saloni-HANUS, the second son of the censor ad wife, who was the daughter of This man had been his secreras still attached to his household narriage took place. He, like his Marcus, died while in the exercise e of prætor, leaving one son. IV. RCIUS CATO, who was elected consul, h Quintus Marcius Rex, in the year i, 117 B. C., and died while in office. narkable after his death only, and father of the most famous of the lineage, surnamed Uticensis. RCIUS CATO, surnamed Uticensis, ice of his death, born 95 B. C., died he great-grandson of the censor. r his birth he lost both his parents, cated by Livius Drusus, his mater-It is told that on one occasion, his arpedon being in the habit of taknile a boy, to visit at the house of and been a friend of his father, Cato loodshed of the conscriptions going im, he asked his tutor for a sword ht slay the tyrant. The first public of Cato was on the occasion of an attribunes to remove a certain pillar ian basilica, which was in the way 3. Cato resisted, with the eloquence peculiar to his house, a motion led the pride of his family, since the auestion had been erected by his her, the censor. Of the further e question we are not informed, but it appears that the young Cato prevailed, and that his ancestor's column was retained, to the discomfiture of the tribunes. His first military command was that of tribune of the soldiers in Macedon; but he had served as a private legionary in the campaign against Spartacus, in which his half-brother Osepio was a tribune, and had been offered a prize of valor by Gallus the prætor, which he declined. During his service in Macedon he was summoned to Ænos in Thrace to attend the deathbed of his half-brother Capio, to whom he was fondly attached; and after the expiration of his military term, he travelled in Asia, whence he brought back with him Athenodorus, the Stoic philosopher, having adopted the tenets of that school, and pushed its practices to the extreme of their austerity. He was elected city questor after his return, and conducted himself with integrity so unusual in that office of responsibility in that corrupt age, that on the close of his term of service, the people escorted him home in a sort of civic triumph. At this time he had obtained credit for such uncompromising and austere morality, that it is related of him that, during the celebration of the feast of Flora, the most licentious of all the Roman festivals, the people hesitated to call on the female dancers, as was usual at a certain stage of the proceedings, to throw off their tunics and dance naked, until Cato should have left the circus. This fact, related by Value Marine Ma lerius Maximus, whether true or not, is equally conclusive and characteristic of the received opinion of the man. In the conspiracy of Catiline, Cato strongly supported the aristocratic and conservative party of the state, against the conspirators. He earnestly promoted the election of Cicero as consul, at that crisis, and when elected sustained him with all his accustomed weight and power. After the flight of Catiline himself, and the arrest of the other conspirators, when Caius Julius Casar had spoken so eloquently and plausibly against the capital punishment of the traitors, which undoubtedly was forbidden by the Porcian and Valerian laws, as to bring over M. Junius Silanus, the consul elect, and many other leading senators to his opinion, it was Cato who, by a speech the tenor of which and its general argument, if not its actual wording, are preserved in Sallust's history of the conspiracy, confirmed the deter-mination of the senate, and procured the death of the men, not as citizens but as enemies of the state and parricides of the republic. It certainly appears that the crisis justified the means adopted to suppress it, and that had less vigorous measures been taken, it would have been too late to punish when the crimes could no longer be prevented. He was the first who, on the suppression of the plot, hailed Oloero as "father of his country." On the usurpation of what is usually called the first triumvirate, that of Crassus, Pompey, and Cssar, being op-posed to their proceedings, he was sent into a sort of honorable exile as governor of the isle of Cyprus, and at the end of his service paid

feated, and the rolics of their army which escaped from the field were so entirely dispirited that they refused to defend the city. On perceiving the impossibility of holding out, Cato now sent off all his friends by sea, advising them to join Cneius Pompey, who was still carrying on the war resolutely in Spain; and then, according to the philosophy of the Stoics, determined not to survive the fortunes of the party to which he was attached, and which, in fact, by his impatience, he largely contributed to ruin. He supped calmly, nothing doubting that the false pride which urged him to suicide was a serene and noble virtue; passed the evening in reading the "Phædo" of Plate, a treatise on the immortality of the soul, and then gave himself a wound of which, though it was not in the first instance mortal, he afterward died, tearing off the bandages with which his friends had endeavored to stanch the bleeding, and expiring from loss of blood. The true reason of this unphilosophical death, which, as such deaths usually do, turned out in the event to be a premature and ruinous dereliction of duty, was simply that Cato was too impatient to str le to the end, and yielded to

CATOPTROMANCY. species of divination by two says that before the temple on o there was a fountain, and an ore ful, not for all events, but to sick person let down a mirror se thread till its base touched water. Then, looking in the presage of death or recover, face appeared fresh and he aspect. Another me od w was to place it b a buy . whose eyes were ward the visions which the possess self to see. CATRAIL, DIV DITCH. This sing

ruins in the coun of Scotland. They fosse and double re round forts or towers formed in ancient times a by the Britons again. They extend from one southward to Peel-1 20 to 24 feet in wides.

ATS, JACOB, a statesman and poet of Holborn at Brouwershaven, in Zealand, Nov. 577, died at his rural retreat, Zorgvliet, Hague, Sept. 12, 1660. He studied at Orleans, and Paris, and on his return to we land published some successful poems. and of the peace ended also his fortune and nt, his possessions being submerged by or devastated by armies. In 1627 he ador to England, and in 1636 grand to literature. The disagreements beland and Holland during the protec-4 cromwell caused his return to England assador in 1652. He is one of the fathers h literature, and a new edition of his us, in 19 vols., appeared in Amsterdam in ⊢1800, a German translation of part of them been published at Hamburg in 1710-A monument was dedicated to him at in 1829. a I'S EYE, a semi-transparent variety of penetrated by fibres of asbestus. It is only of a greenish gray color, though s yellow, red, or brown. When poln the eye of a cat. n ISKILL, the capital of Greene co., N. Y., insted on the W. side of the Hudson river. 11 m. from New York; pop. of the townm 1855, 5,710; of the village, 2,520. There 5 churches, a court-house, a jail, and 2 per offices. A ferry crosses the river, ng with the railroad on the E. bank. MISKILL MOUNTAINS, a group of the machian chain, on the W. side of the Hudriver, lying mostly in Greene co., N. Y. E. base is 7 or 8 m. distant from the vilof Catskill. These mountains range parallel he river only for about 12 m., spurs from and S. terminations turning respecdifferent form from that of the parallel of the Appalachians, as seen in Pennsyl-It differs from these also in assuming of the Alpine character of peaks consider-relevated above the general summits. It mbles them in the precipitous slopes toward E, and the gentler declivities, which are in the high lands on the W. side. Its geocal structure is almost a repetition of that he main Alleghany ridge throughout Pennmia, the same formations succeeding in same order from the E. base to the sumand giving to it, even in a more marked than is there witnessed, the terraced ne due to the alternation of groups of a that are easily worn away, and that fully resist denuding forces. Along its the strata of the old red sandstone forare seen dipping in toward the central These are succeeded by the gray slaty es of hard texture, which make up the precipitous slopes, except those of the est summits, which are capped by the con-zerate of white quartz pebbles. This is

the floor of the coal formation. Upon the Alleghany mountain it forms the highest knobs, which present their vertical fronts to the E. and slope away to the W. The dip in this direction being there steeper than the declivity of the mountain, the coal beds find a place above the conglomerate; but upon the high peaks of the Catskills this rock lies too horizontally for higher strata to appear, and a descent to lower levels in a W. direction only brings to view again the same formations met with on the E. side. Thus for want of 100 feet perhaps of greater elevation the Catskills miss the lowest coal beds. Even in the midst of the strata of the conglomerate its carbonifer-ous character is seen by the black shales here and there pinched among its massive blocks, and by seams of anthracite of a few inches in thickness contorted into strange forms. These, before their real relations were understood, led to vain hopes and futile explorations to discover workable beds of coal in the hard sandstones of these summits. But it is now well understood that the Catakills can never claim regard for the value of their mineral productions. Their chief interest lies in the variety and beauty of their scenery. In a field of very limited area, easy of access and soon explored, they present a multitude of picturesque objects, which have long made them a favorite resort of artists and of those who find pleasure in the wild haunts of the mountains. The traveller upon the river is struck by their quiet grandeur and more imposing appearance than that of any other scenery along the Hudson; or, if so fortunate as to view them from the high lands, a few miles E. of the river, when the sun is descending behind their summits and gilding them with its part-ing rays, he may witness most beautiful dis-plays of colors, and purple tints reflected into the atmosphere from the mountain sides, such as before, seen only upon canvas, he regarded as the exaggerations of the painter. From the village of Catskill a stage road of 12 miles leads to the "Mountain House," a conspicuous hotel, perched upon one of the terraces of the mountain at an elevation of 2,500 feet above the river. Here the traveller finds a cool and quiet retreat from the heat and bustle of cities, and a convenient starting point for his explorations of the mountains. Their features of especial in-terest are the high summits, which afford extensive views of the fine country around, of the Hudson river, visible with all the towns upon its banks from the Highlands to Albany, and of the mountains of Vermont, Massachusetts, and Connecticut, in the distant eastern horizon. The sunrise, as seen from these summits, or even from the windows of the hotel which look toward the east, presents a spectacle of such magnificence that it claims the first re-The twin lakes nestled beside each other in their mountain bed are soon reached; and their outlet conducts to what are perhaps the most striking features of the Catakilla

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ortation of which is greatly facilitated by the M. Y. and Erie railroad, which traverses the county and by the Genesee valley canal, which extends from Rochester to Olean. Capital, Ellicottville.

CATTARO (Slav. Kotor), one of the 4 circles of the Austrian kingdom of Dalmatia, surrounded by the Adriatic, the Herzegovina, and Montenegro; area about 600 sq. m.; pop. 30,900. CATTARO, the capital of the circle, is charmingly situated at the foot of the Montenegro mountains, and at the S. E. extremity of the gulf of Cattaro; lat. 42° 25′ N., long. 18° 46′ E. The town was almost entirely destroyed by the Thouskes of 1563 and 1677, and the populahas dwindled down to 3,000 or 4,000. The reets are narrow, but the town is strongly Cortified, and the port was made a naval depot in Aug. 1854. The best ships of Dalmatia constructed along the coast of Cattaro, but he harbor of the town, although one of the best the Adriatic, is little frequented by shipping. Cattaro, however, takes a fair share in the Dalmatian imports and exports, which amountin 1855, the former to \$3,350,000, and the ter to \$2,500,000. The principal articles of ade are wine, oil, figs, wool, silk, honey, wax, low, smoked meat, dried fish, butter, eggs, cheese, and charcoal. Outside the E. gate of the town is the bazaar, which is supplied with Provisions by the Montenegrins, who cross the countain ridge to bring them to market. sade of Cattaro is carried on by tribes. Dobrota tribe trade with Trieste, and are frugal and industrious. The Perastro tribe trade with The Erzagno tribe are noted for their Love of finery. The Ricano tribe are excellent Beside these, there are several other tribes of traders. The principal buildings are the cathedral, a collegiate church, 17 other Roman Catholic churches, 2 Greek churches, 6 convents, a hospital, a gymnasium, the residences of the governor and the bishop.—In the middle ages Cattaro was a prosperous republic. In 1420 it submitted to the Venetians; in 1797 it was annexed to Austria; in 1805, by the treaty of Presburg, it was incorporated into the French kingdom of Italy, but did not pass into the possession of the French until 1807, having been occupied by the Russians in the interval. Finally, in 1814 it reverted again to Austria. In 1849 Cattaro organized an independent government, but in Jan. 1850, was brought back under the sway of Austria.—The gulf of Cattaro, or Boeche de Cattaro, the Rhizonic gulf of antiquity, is renowned for the beauty of its scenery. The capital of Montenegro, Cettigne, is only 5 hours distant from Cattaro. The weekly Austrian steamer makes the voyage from Ragusa to Cattaro in about 6 hours. The popular language is the Herzegovina dialect of the Slavonian, but Italian is the language of the educated classes, and used in the transaction of public affairs. The majority of the population consists of descendants of the ancient Slavonians,

who invaded the country in the 7th century; of Italians, of Bosnian Greeks, and Servian Morlaks, with a small sprinkling of Germans, Jews, Greeks, and gypsies. Roman Catholicism is the established religion; about 1 of the inhabitants, however, profess the Greek fuith. National schools of a superior class have been established at Cattaro, independently of the schools attached to the convents.

CATTEGAT, or KATTEGAT, a large strait lying between Sweden and Jutland, communicating with the North sea through the Skager Rack on the N., and with the Baltic through the Sound and the Great and Little Belts on the S. Length 150 m.; breadth in the central part about 90 m. It is difficult of navigation, being not only shallow toward the shores and ir regular in depth, but obstructed by several sand banks, one of which lies in the middle of 'the channel. The herring fishery is carried on extensively in its waters. The chief islands are Lasöe, Anholt, and Samsöe. On the Kobber ground in the Cattegat, there is a light-ship

with 8 lights.

CATTERMOLE, GEORGE, an English artist, porn in 1800, at Dickleburgh, Norfolk, best known as a delineator in water colors, although of late years he has worked chiefly in oil. Cattermole occupies a field in modern art almost entirely his own. He places on canvas the romance of history. Into architectural designs of an elaborate character he introduces groups which tell the story. His cathedral interiors are remarkable for effects produced by striking contrasts of light and shade. Scenes from the feudal ages and the times of the English civil wars are his favorite themes. These permit him a variety of ornamentation and warm coloring. His most celebrated pictures are: "Luther before the Diot of Spire," "Raleigh witnessing the Death of Essex," the "Skirmish on the Bridge." He has painted innumerable interiors of church and castle, together with designs illustrative of Scott's novels, Shakespeare's plays, the times of the English cavaliers, &c. Mr. Cattermole, who resides in London, now seldom places his works on exhibition. His pictures bear high prices in England.

CATTI, or Chatti, an ancient German people, not very well known to the Romans, who never subdued them, although they made several incursions into their territory and slaughtered women and children. It is scarcely possible to arrive at any thing satisfactory concerning even the country which they inhabited, so irreconcilable are the contradictions. Cæsar only knew that they lived beyond the Ubii, whose seat was about Cologne; and that they were divided, inland, from the Cherusci by a wood which he calls Bacenis. In one place, we are told that they dwelt N. E. of Mount Taunus, still known by the same name, which occupies the abrupt angle of the Rhine between Boppart and Mentz, among the head waters of the Eder and Weser; that their capital was Mattium,



and provisions; so that, while other tribes go out prepared for battle, the Catti march in a condition for a campaign." They did not allow their young men to cut their hair or trim their beards, until they had slain an enemy; and all youths of unusual strength and size were compelled to wear an iron ring, after a certain age, as a mark of dishonor and reproach until they should have gained the right to remove it by alaying a man in battle. They had no individual property of land or houses, no care for tomorrow. Every one was fed, wherever he chanced to be at the moment; equally carcless of their own, and lavish of that of others, whether it were property or life, they persisted thus until extreme old age deprived them of such robust and hardy vigor.

CATTLE, a class of domestic animals. In its primary sense, horses and asses are included in the term, as well as oxen, cows, sheep, goats, and perhaps swine. In England, beasts of the ox species are more precisely described as black cattle, or neat cattle. In the United States, the term cattle is usually applied to horned animals alone. Like that of many other species of animals now domesti-

United States by the late Roswel erson, N. J. They have wide-sprea coarse flesh, but fatten easily. In exist many singular and distinc most remarkable of which is, per brated sacred or Brahminic bull dolent, phlegmatic animal, with horns, large pendulous ears, mous hump and dewlap of soli which never, even under the hea sun, is known to "melt, thau itself into a dew." Its cost i sleeker than even that of the o while its form approaches neares bison. Beside this, they heve rose, almost hairless-hided buff and half domesticated, with it crescent-shaped horns, of 18 incl root, and 4 or 5 feet measure rou curve; the beautiful, little, hump zebu; that strange animal, the ing ox of Thibet, with a tail horse; and probably many other imperfectly known and undesc formerly supposed that domest descended from the wild Europ

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ı size, compactly built, invariably of ream-colored white, with jet black hoofs, and the upper half of the black or dull red. They are reps having formerly had manes; but teristic is lost, although their indomit and desperate ferocity remain un-Within a few years three herds of were in existence; one in the chase cham castle, the property of the earl rille, in Northumberland; one in that te of Hamilton, at Hamilton castle, 1; and one at Drumlanrig, in Dum-Lord Tankerville's herd were redse of the duke of Hamilton had the which are considered characteristic e Scottish race. Although kept in it within vast enclosed chases, these perfectly wild, tameless, and savage. Id hold no connection with other e than the red deer will with the ey would not brook the approach of evinced their original wild nature by icity with which the cows concealed ss in deep brakes of fern or underresisted any approach to their lair. even that, if discovered, they would destroy their offspring, as the bulls n to do their disabled or superannu-The structural characterisese cattle differ in no respect from ne domestic ox; their invariable selfcertain evidence of the purity and of their breed, as it is a strong proof are not the descendants of tame elapsed into a savage state; since is the case with the South Ameri--long retain their variegated hues, s of domestication and servitude. sattle of continental Europe, the Pokraine oxen are large, strong, and dily, the flesh being succulent and The cows are shy, not fit iry; color light gray, seldom black oxen docile at work. On the Jutland, Holstein, and Schleswig, a fine breed with small, crooked posed to be allied to the Friesland erness breed; colors various, mouse aterspersed with white being most Red cows of this breed are seldom o cows are good milkers in moderate The oxen fatten well when grazed or the proper age, being fine in horn and in loin, but not as hardy and strong s the Hungarian breed. Nearer the attle are stronger and more active. t are among the Swiss. The Freyburg very rich pastures in the vicinity of fruyères). The cows most prized are wide in the flank, strong in the horn, strong in bone; they show a promred a blemish by short-horn breeders. t is rich in pasture, or when stall-fed or lucern; the oxen are good workers, but heavy and slow, and fatten well. In the Jura there is a small, active mountain breed. that keep well on little food; they are of a light red color; oxen active and strong for their size, drawing by the horns. They are not profitable for stall-feeding, but good for mountain cot-tagers, as they climb like goats, feeding on the patches of pasture. The Norman breed give character to all the cattle in the north of France, except near the eastern frontier; they are light red, sometimes spotted with white; horns short, set well out, and turned up with a black tip; legs fine and slender; hips high; thighs thin; good milkers, with rich milk. They are usually fed on thin pastures, along roads and the balks which divide fields. In Normandy the pastures are better, sud the cattle larger. The Alderneys or Jerseys, in France, are supposed to be a smaller variety of the Norman, with shorter horns and more deer-like forms. This breed is very dooile, having been for generations accustomed to be tethered in fields, along the roads, or in yards. They are found in gentlemen's parks and pleasure-grounds in England. A large number have been brought to the United States, but they are not considered so profitable a some other breeds. The Italian breed is most remarkable for immense length of horn. No pains is expended on this breed except in northern Italy, where the Parmesan cheese is made. The Italian cattle resemble the Swiss. In England the breeding of cattle has been carried to the greatest perfection. The "Commentaries" of Cæsar state that the British in his time had great numbers of cattle, though of no great bulk or beauty. The island being divided into many petty sovereignties, cattle were the safest kind of property, as they could be driven away from danger. When more peaceful times returned, cattle were neglected for other productions, their size and number diminished, and not until within the last 150 years was any considerable effort made to improve them. The breeds in England are as various as the districts they inhabit, or the fancies of the breeders. A curious classification by the horns has obtained, having been found useful. The long-horns, originally from Lancashire, were much improved by Mr. Bakewell, of Leicestershire, and are now found in the midland counties. The short-horns first appeared in Lincolnshire and the northern counties, but are now found in most parts of the island. The middle-horns, a valuable and beautiful breed, came from the north of Devon. the east of Sussex, Herefordshire, and Gloucestershire. The crumpled horn is found in Alderney on the south coast, and in almost every park in small numbers. The hornless or polled cattle were first derived from Galloway, and now prevail in Suffolk and Norfolk. Which is the original breed of all has been a bone of contention among English breeders. It is held by some that the long-horns are of Irish extraction; that the short-horns were produced by the efforts of breeders; while the polled. thous

In the United States there is now a class of narmers prove better than the short-horns. About 1835 some A native cattle, arising from a mixture of various imported, and this breed has e in the United States a high c breeds imported by the early settlers, who, for the want of barns, and from habits established yoke, and shambles. The in a milder climate, allowed their cattle to sufnot seem to find of Alderneys, of war i for severely; many perished, the survivors degenerating in size and quality. As agriculture advanced and settlers became more prosperous, since by Mr. R. L. Colt, or a the cattle were improved; and there are to be seem admirably adapted to Though their milk is very found in different districts native cattle varying with the richness of soil, salubrity of climate, and care of breeders. The English breeds, small. They are poor for b as workers; some breeders however, believe them to be very gaining celebrity, attracted the attention of enterprising breeders here, who commenced imbutter and cheese. The long-ho porting the Durhams, Devons, Ayrshires, Herefords, and Alderneys, with a few Galloways and some long-horns, and occasionally a few Scotch cattle. These cattle, imported at great sparingly imported, and do not fir Sussex are better liked, though 1 introduced, while their supposed Devons, are held by ny ire. cost, and not inured to our climate and rough superior to the Durh treatment, prospered only in the best situations, and for a long period attracted little attention most of the older breed, and without car from ordinary farmers. At present there are they have s ined - superna

have many complaints, yet generexempt from great mortality. Occa--- "milk sickness" appears in some of the Alleghanies, when the ani-and dies, giving the peculiar disease, partake of her milk or flesh. It is o originate from the rhus toxicodenison ivy. The remedy is feeding large of Indian corn. The horn distemper il sometimes prevail extensively, and s, where the cattle are closely confined fed, they become ulcerated and other-used. No class of animals are so No class of animals are so maladies as neat cattle when well Good pasturage, good hay, grain, I water, and airy stables, with sufficise, are necessary to maintain good cattle or to improve their condisty of food is essential, and the feedin winter is particularly necessary, place the succulent grass of summer. ce of "soiling" in summer is strongly in England, and has found favor with) have fairly tried it in the United ne cattle are kept in cool, clean stables, rye, oats, corn sown broadcast, lucern, rghum, &c., are cut and carried to ese green substances should be allowed I heat slightly before being used; the sing turned out for 3 or 4 hours in a ald without grass. A lump of rock I be put in each manger. It is recomnat on large farms stables for summer placed in the centre of a 40 acre field, it convenient to get food to them, and nanures near where they are required. ord the means of keeping up the ferfarm, and generally a cattle district, her every year, while a grain district ne introduction of foreign manures at , grows poorer.—The weekly average on of cattle in the city of New York was: beeves 3,565, calves 922, cows I for the year, beeves 185,574, calves ws 12,110. The annual consumption 1 was estimated, at the period of the sh census of 1851: bullocks 240,000 res, 28,000 hd., sheep 1,700,000 hd., 10 hd. The consumption of Paris in about 137,000,000 lbs. of all kinds of wing an increase of 6,000,000 lbs.

war, or Kattywar, a province comwe whole of the Indian peninsula of
ounded on the N. and N. W. by the
the gulf of Cutch; on the S. and S.
Arabian sea; and on the E. by the
ict Ahmedabad and the gulf of Camween lat. 20° 42' and 23° 10' N., long.
72° 14' E.; area 19,850 sq. m.; pop.
The principal towns are Amreli, Choondla, Buggusra, and Cheetal. The
product is cotton. The grains chiefly
are wheat, maize, and millet. The
is grown extensively, but is only made
e molasses or goor. The Cattywar
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horse, once celebrated, has of late years deteriorated. A breed of kine, called desam, and buffaloes are much valued, but not the camel, of which there are only few, and those very small. The soil is sandy and not fertile, but numerous streams and wells afford ample means of irrigation, all the rivers taking their rise in the most central part of the province. Toward the S. some of the hills are over 1,000 feet high. Deep ravines and caverns are very numerous, and afford safe retreats against attack. A locality of wooded hills called the Gir is haunted by wild animals of the most ferocious kind, and noted for its deadly climate. The ravages of migratory rats produced such a terrible famine in 1814, that this year has since been called the rat year. The province is divided into 10 districts, which are again subdivided into the separate possessions of 216 Hindoo chiefs, some of whom are tributary to Great Britain, others to the Guicowar. The Cattywar tribute figured in the revenue of the presidency of Bombay to the extent of £56,105 in 1856. The total revenue of the Hindoo chiefs is estimated at about £450,000. The military force of the chiefs consists of 12,000 men, 4,000 horse and 8,000 foot.

CATULLUS, CAIUS VALERIUS, a Roman poet, born in Verona, 87 B. C.; the time of his death is variously estimated between 57 and 40 B. C. He belonged to an ancient and noble family; his father was connected with Julius Caesar by the bond of hospitality, being a hospes, a tie very sacred among the Romans. The son came to Rome by the influence of Manlius, and became acquainted with Nepos, Cicero, and other great men of the age; possessing a moderate fortune, he did not enter upon public life, but dwelt in retirement at Rome and at his villa near Tibur. He is the earliest Latin lyric poet of any importance. The first attempts of the Romans in lyric poetry may be traced to table, triumphal, and the Salian songs; the Roman lyric may be considered an imitation of the Greek, although possessing peculiar merits of its own. When the Roman character became changed by Christianity, lyric poets became very numerous; this change forms an important epoch in the history of our religion, as some of the most beautiful songs of the Catholic church may be traced, both in their text and music, to this time. We have 116 poems of Catulius, mostly short ones, and without arrangement by mostly short ones, and without arrangement by subjects; a few belong strictly to lyric poetry, some are elegiac, but most are epigrammatic. From his imitation of the Greeks, Catulus has been called doctus, but, next to Lucretius, he possesses the most originality; there is in his style a certain air of antiquity which the Romans greatly admired. The text of Catulus seems to have been early corrupted; all MSS. are derived from one source, and that an imperfect one. There are several poems of unknown authorship, which are ascribed to Catullus; the elder Pliny mentions De Incantamentis. Oiris and Pervigilium Venerie have been attributed to him, but the latter is now generally believed to

m wine, and more actively in state, or which boundary between Europe there are extensive quarries in the lateral valleys. Pop. about 1,500. line of the country would repe CAUCA, a state of New Granada, bounded N. by the Caribbean sea, W. by the Pacific, S. round-topped me those peaks which a ains (e: by Ecuador, and E. by the provinces Magdalena other chains), their we fertile valleys, descerum wo plains which stretch N. ...to and Cundinamarca, divided into the 4 districts of Popayan, Choco, Buenaventura, and Pasthe Cossacks, and S. to A whole region known as Cau to. Area 68,300 sq. m. Pop. in 1853, 49,000 Caucasian whites, 25,000 civilized Indians, \$8,000 negroes, 14,600 quadroons, 88,049 mestizos, 114,800 mulattoes, 2,300 zambas; total, 276,249. within lines extending from Koor on the Caspian, in lat. 39', er, and 41st parallels in a N. E. dis mouth of the Rion, or Phasis, on The principal town is Popayan, near the 2 famous volcanoes of Purace and Sotara. lat. 42° N., and from the mouth principal mountains are the Paramo de Guanacas, the Quindiu, Pasto, Sindagua, all branches of the Cordilleras de los Andes. The principal proon the Caspian, lat. 44°, to the en the Kooban, on the Black sea, i ductions of the state are gold and platina. The extreme points being, on the N 37°, and on the S. E., in long. soil is very fertile, and cattle and sheep abound. is roughly estimated at 56,000 territory N. of the Cancasian formerly known as the Russian Cocoa, cotton, tobacco, coffee, and various kinds of grain and rice, are also produced. The sea of Papas in this state is the source of the Maggovernment of Caucasus, also a but it now forms the Russian g

Astrakhan. The vast tract of cou mountains forms the present at

Transcaucasia. The Cat

dalena river. Among the rivers is the Pusambio, which springs from the volcano Purace, the hot acid waters of which are poisonous and produces a dangerous disease of the eyes; the

Atrato, which is united with the San Juan

hese subsidiary chains are Elvend both on the N. The principal Mount Elbrooz, the highest point variously estimated at 16,500 and

uinvari or Kasbek, 14,500 feet; on the confines of Daghestan, Djouar-Vahé, estimated at 8,000; 7,000 feet. The passage of these effected through defiles, some of historic celebrity. Such are the w called the Dariel pass, the Alirmatic pass in Daghestan, the ear Teheran, and the Iberian, now aourapé pass. Only one road is or carriages, namely, the pass: to Tiflis, by the valley of the mountains of the Caucasus are round-topped. The geological · round-topped. ne greater portion is of secondary terspersed with volcanic rocks. and central ridge are granitic; on granite has schistose mountains I these are succeeded by calcarese bases are covered by sandy mountains are more abrupt on e; southward they descend by a erraces. Snow rests on summits et in altitude throughout the year. are but of limited extent, and no es are known. Earthquakes are t. The region is scantily supplied streams. There are no lakes, if mall sheet of water lying to the Khoki. Twelve watersheds or counted, 6 on the N. slope, and 6 ie principal rivers on the north-Terek, flowing E. to the Caspian,

W. to the Black sea. On the like manner flows E., and the exists of the Caucasus posvalley to the cold of perpetual ation in the habitable districts is rests of the finest timber clothe ost to the snow line. Grain will vation of 7,000 feet. In the cenordinary species of fruits produce pomegranates, and figs ripen in Rice, flax, tobacco, and indigo are The culture of sugar-cane, silk, as been introduced into some lo-Russian districts. Among the eculiar to the Caucasus are a spesal insect; a hard-wood tree, callchelia, with wood of a rose color, abinet work; also the Caucasian ad for the value of its hair; and a f the feline species, called by the

The horses of the Caucasus bear eter for endurance and docility. It found in the forests. Wolves, lynxes, with the minor fur-bearing unerous. The wool of the ordif sheep is long and fine. Almost of birds known to the latitude are The following table presents an approximate estimate of the average value of the principal products annually exported from the Caucasus:

WITH	*** *** ***
M Deat	
Beriey	
Buckwheat	
Maiza	900 804
Cattle	16,000,000
Saffron	75.000
Madder	
Wine	
Brandy	200,000
Silk	
Cotton	150,000

Few minerals have been discovered; gold appears to be totally wanting; iron, copper, salt-petre, and lead are found, the latter in considerable quantity.—The Caucasians are generally a bold and restless people, hunters and guerrillas from choice, shepherds and agriculturists only from necessity. Although hospitable, they are jealous and revengeful. Like all mountaineers, they are endowed with an indomitable love of their country. They live in villages built of stone, around a citadel which they garrison in time of danger. Until recently their youth of both sexes were raised for sale in the slave markets of Constantinople; but that traffic has been suppressed. Their political organization was formerly a loose sort of republicanism, under the nominal presidency of a hereditary prince. Recent events have ma-terially modified that form. Literature they have none. Their religion is an offshoot of Mohammedanism, corrupted from many sources. Of late, Shamyl, the Circassian chieftain, has instituted a new creed, of which the principal tenet is obedience to the divine communications received through himself. Probably the total population of the Caucasian region is not short of 2,500,000.—Ancient history makes frequent mention of this region. Here Prometheus was chained. Deucalion, Pyrrha, and the Argonauts, Secostris and the Egyptians, the Scythians, Mithridates, Pompey, and Trajan, are associated with its history. The Araba, Mongola Tartars, and Turkomans successively ravaged the countries to its base. Russia and Persia then struggled for its possession, until, in 1818, the Russians became nominally possession. ed of it by successive treaties. For the past 20 years a constant war has been carried on between the Caucasian mountaineers and the Russians. Since 1800, when Georgia was annexed to the empire of the car, the Russians have been untiring in their effects to reduce the mountain tribes, which form a bar-rier to their advance eastward. A desultory warfare of several years ended by the mountaineers being reduced to a condition nearly But in 1828 a new approaching to subjection. movement sprung up in the mountains. Mo-hammed, the Mollah, commenced against the Russians a campaign in Daghestan. A chieftain named Kasi-Mollah was soon recognised as a head of the movement, having for his a Shamyl, then a young man, but who has sha

become famous as the Circassians' chief. This chief, Kasi, kept up a brilliant resistance to the Russian power till 1831, when he was shut up in Himry. The Russians stormed the place, and gained possession of it only when the last of its defenders had perished; the chief himself was slain. Hamsad Bey next took the field, and devoted his first care to coercing into neutrality the disaffected tribes, but his career was cut short by assassination. The career was cut short by assassination. The Mollah Mohammed being now dead, Shamyl was elected his successor. From that day to this the war has been carried on with varying success, but has never flagged. The campaign of 1837 terminated by the capitulation of Shamyl, who was besieged in Tilitla. During 1838 the Caucasians were employed in preparing themselves for future resistance, several of the disaffected tribes joining them. passes of the mountains were fortified, and the strong position of Akulgo was put in readiness to stand a siege. In the succeeding year the Russians, under Gen. Grabbe, entered the territory, defeated the Caucasians, and drove them back upon Akulgo, which was finally taken after a blockade of 72 days, and 3 days' hand-tohand fighting. The Caucasians once more nom-inally succumbed to the Russian power. In the next year, March, 1840, they again revolted. Having found European tactics ineffective in the previous campaign, they fell back on their old system of guerrilla warfare. Lesghistan and the Tchetchentsi were formed into a military organization, which enabled them to throw their force on any point. Gen. Grabbe again attempted to penetrate into the mountains, but was compelled to retreat with much suffering to his army. The next attempt to conquer this brave people was made in 1845 by Prince Woronzoff, who bore the appointment of governor-general of the Russian Caucasian provinces. Woronzoff penetrated to Dargo, which he found in flames. The campaign being over, Woronzoff returned home. By his recommendation a new plan of action was introduced against the mountaineers. Hitherto the tactics had been to bring them to pitched battle, with the hope of breaking their strength at a single blow. Now the plan was to send detached columns against isolated spots, and wherever a footing was obtained, to erect a fort on it. Notwithstanding this, the Caucasians have been able to carry on offensive operations. In 1846 they swept the line of Russian forts, and returned to their mountains laden with plunder. In 1848 and 1850 they made similar expeditions, and in 1853 they took from the Russians several guns, and drove them back from 8 leagues of territory. During the Crimean war the Circassians refrained from taking a conspicuous part. They embraced the opportunity to consolidate their own resources for the renewed struggle with Russia, which they foresaw awaited them when the Crimean war should be over. The destruction by the allies of the Russian forts on the eastern coast of the Black sea was a fortunate circumstance for

the Caucasians, and of whose. As soon as the war was over again turned their arms a struggle continues to the whole territory allied to into four provinces, each or ward a tered by a lieutenant-general. Each is subdivided into 5 districts, called 2 over each of which presides a Naih, quired to maintain 300 horsewel. Bariatinsky left Russia in Oct. 1 to the functions of governor in the CAUCASUS, INDIAM. See E.

CAUCHY, AUGUSTIN LOUIS, & r ematician, born in Paris, Aug. 21, a May 23, 1857. His father, the poet or and keeper of the archives of the bo peers (born 1755, died 1847), gave ful education, and he early showed talent both for poetry and mathemans mitted in 1805 to the école polytechni distinguished himself by the so problems, and maintained the h school, and afterward in the écons chausses. From the year 1818 down to poured forth almost incessantly t mind singularly adapted to algeb matical research. Scarce a branca o ics, pure or applied, does not owe som labors. His fame will rest chiefly on ual and his imaginary cal. H mitted to the academy in 1010, same time appointed professor on the polytechnic school. He nul "Lectures on Analysis;" in Differential Calculus;" and m a tures on the Applications of the I culus to Geometry." The jou and several European 1 contain numerous and varues his pen. He is highly bonored country both for his genius: his private character; but tachment to Bourbon him from taking the new ance, by which alone he co offices which he held in offered him on subseque however, he was appointed mathematical astron y which v tuted at the Paris um take the requisite cath w. = quished this post in June, religious writings to v b y poem to min gitimacy in politics, in F in religion. One or i works of the kind Espagne, which was

OAUCUS, a word or and ployed in the United States to of the political machinery which, though unknown to stitutions and remer a marked feature t system. The o was probably in the

CAUCUS !...

diary, dated Boston, Feb. 1768: sy learned that the caucus club meets a times in the garret of Tom Dawes, ant of the Boston regiment. He has suss, and he has a movable partition in t which he takes down, and the whole

in one room. There they smoke in you cannot see from one end of the in the other. There they drink flip, I and there they choose a moderator a questions to the vote regularly, and a overseers, collectors, wardens, fire-representatives are regularly chosen

are chosen by the town. They send so to wait on the merchants' club, and and join in the choice of men and Capt. Cunningham says they have ected him to go to those caucuses," &c. in the following passage of his "Hisbe American Revolution," under date at which time he was minister of Rox-

Boston, and very intimate with the readers of the day—traces back this to a much earlier date: "More than 50 o Mr. Samuel Adams's father and 20 o me or two from the north end of the all the ship business is carried on,

make a caucus, and lay their plans aucing certain persons into places of power. When they had settled it, they and used each their particular influence own circle. He and his friends would themselves with ballots, including the the parties fixed upon, which they disourthe days of election. By acting in together with a careful and extensive ion of ballots, they generally carried ions to their own mind. In like manas that Mr. S. Adams first became a cative for Boston." It has been plausectured that caucus is a corruption of

ectured that caucus is a corruption of Very likely the caucus club which fom Dawes's garret was originally a s' club, called, from the leading trade calkers' club, which name, with a , it still retained after it had passed hands of politicians. The change of ent consequent on the revolution led, rthern states especially, to a great inthe number of elective offices, while uling idea of the impropriety of selfons and of a personal canvass for votes ne nominating and canvassing machinsary. Meetings held for this purpose the name of caucuses. These caucuses longer private clubs .- Soon after the of the federal constitution, the people nited States became divided into two marked parties, the federalists and the ins. Even the local elections of the places speedily came to turn for the t on this great national party division. ty held in each election district its own nominate candidates. Public notice ime and place was given, and every the party was at liberty to attend; but

of course the attendance was chiefly composed of zealous politicians. A moderator and clerk being chosen, a nomination list was opened. Each person present nominated whom he pleased. Several copies of the list were made and distributed through the meeting, each person placing a mark against the candidate whom he proposed, and the candidate having the highest number of marks was declared the nominee. This method, however, was evidently inapplicable where the constituency was large or the district extensive, as was the case when state senstors or representatives in congress were to be chosen. Hence the substitution of a representative caucus, delegates being appointed at meetings like that above described, held in case of cities and large towns in the wards, and in country districts in the townships. These elective caucuses commonly took to themselves the name of nominating conventions, and their introduc-tion marks a third era in the development of the caucus system. A considerable period, however, elapsed before this convention system was applied to state or presidential nominations. The members of the state legislatures in the one case and of congress in the other—those of each party holding their own separate caucus—took upon themselves to make these nominations. At first these legislative and congressional caucuses were held privately, the result being gradually diffused among the local leaders of the party by private correspondence. Afterward, however, they came to be formally and avowedly held. Committees were appointed to look after the elections, and beside a state committee the legislative caucuses assumed the power of nominating the chairmen of the local county and district conventions. At length it began to be objected that in these legislative caroneces only those districts in which the party was in the majority were represented, and this and other causes led, between 1820 and 1880, to the substitution in New York and Pennsylvania of state conventions in their place—a custom since Congressional cancuses universally imitated. about the same time fell into disfavor. held in 1823 to nominate a successor to Monroe was but alenderly attended; and its nomiroe was out siencery attended; and its noun-nation was extensively disregarded, so that Mr. Crawford, its nominee, was behind both Jack-son and Adams in the popular vote. At the presidential election of 1828, Adams became the candidate of one party and Jackson of the other, without any formal nomination. Indeed, it may be observed of the congressional concus es, that so far as the presidency was concerned they all, except the last of which the nomination failed, did but select the candidate already designated by popular expectation. The congressional caucus system being exploded, the Jackson or democratic party held in 1833 a national nominating convention, each state being entitled to the same number of votes as in the presidential election, and similar conventions of that party have been held to nominal candidates for each succeeding president

citement, fidelity to regular nominations being zealously inculcated by caucus politicians, both as indispensable to success and as the greatest of political virtues. Membership of these conventions, when made an object of contest, is generally attained by superior adroitness and audacity. Gross frauds, and in some cases open violence, are resorted to, possession of the majority in the convention ordinarily carrying with it, as between the different cliques contending for its control, the leadership of the party. The caucus system is thus often converted into a contrivance for the distribution of offices among men more distinguished for intrigue than for talent, who, by combination and mutual support, and by serving each other's turns, are often raised to offices, and sometimes very high ones, for which, apart from a caucus nomination, they would hardly have been thought of as candidates

CAUDEBEC, a French town on the Seine, department of Seine-Inférieure, 26 m. E. of Havre. Pop. 2,567. The principal edifice is the parish church, a celebrated Gothic building in the florid style of the 15th century. It was taken in 1419, and by the Prot by the l 192 it was h uped hy Alexi

marquis of, and duke of Vice general and diplomatist, born a department Aisne, Dec. 9. Dec. 9. 1 Paris, Feb. 19, 1827. He at an early age; being on was deprived of his property tion, and cast into 20. ated; and by the in reinstated in the to the Turkish emu 1 guished himself in the Moreau, and r t P sent by the fi tò sian emperor his return l INCUSE OF staff. While are was operations on the Rhi was arrested and show that Caulaincourt had a accompanied Napoleon i. '6, and '7; in t minister to R

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It has a compact rounded head of delior, standing on a stalk 18 to 26 inches and surrounded by long leaves. ue not closely packed as in the cabbage. re tender than the cabbage, and in ating should have a ball of earth lifted roots to secure a continuous growth. acinity of New York 2 crops are raised kitchen garden in one season. If the end of June, it will usually fail to head, excessive heat at that time. s for this crop seeds should be sown in in good soil, and in about 4 weeks nted to a cold frame, set 2 or 3 inches carefully protected by glass during x, being opened to the air only during uays. In February they should be set ther frame, 8 to 12 inches apart, to a spindling growth. They should be ted as early in the spring as possible, ance of 3 feet from each other, and well and frequently hoed during the dry At the time of heading, the larger y be broken over the head to protect we sun, and the waterings should be went. For a late crop the seeds are sown n open bed in May, and the transplanting is aly. Those plants which do not head befrost may be removed to a warm shed or ir, covered with coarse litter, and allowed

and during early winter.

AURA, a river of Venezuela, formed by the stion of the Yurani, Erevato, Mareguare, and ral of their tributaries. It unites with the occupance and course of about 150 m.

AURSINES, or CAORDINI, also CAORDINI, an usurers in the middle ages, who were a driven out of the countries in which they led, on account of their merciless exactions. The derived their name from Cahors, which one of the head-quarters of the same class arsons in southern France.

AUS, SALOMON DE, a French engineer, archiand author, died about 1635. He was probably at Dieppe, devoted himself with to mathematics, making Archimedea, nvius, and Euclid his favorite reading; t in 1612 to London, where he was ated to the prince of Wales, afterward rles I.; lived from 1614 to 1620 at Heidel; at the court of the elector palatine Fredver, and returned to France in 1624. The he received the title of royal engineer architect. He wrote several ingenious ks, in one of which, entitled Les raisons forces mouvantes, he speaks of the expanand condensation of steam in a way nature to suggest the alternate action of the pisand the principle of the steam engine; it therefore been claimed that the marquis of reester borrowed from him the discovery of properties of steam as a motive power.

AUSE. Few words are more conspicuous he discussions of philosophy than this, and if any principles lie deeper in its foun-

dation than that which it has been used to denote. It would require a thorough review of the history of philosophy and of the various systems that have been taught, to give a satisfactory exposition of all the senses in which the word "cause" has been used, and of all the theories of causation; this is of course impossible in this place. The discussions of cause appear to have assumed a scientific form first with Aristotle ("Posterior Analytics," ii., chap. xi.). Aristotle reckons 4 kinds of causes efficient, final, material, and formal. The first or efficient, being the force, energy, or person by which any thing has been brought into being, is of necessity prior to the effect or thing produced; the second or final cause is the object for which a thing is produced, and does not really exist until after the effect, and is in some sense the effect of the effect. Material causes, as Aristotle says ("Metaphysics," vii. 4), exist only in physical substances; as, for example, marble is the material cause of a statue, or in general that of which anything is made is its material cause, and the tools, machinery, &c., by which its specific form was given to it, are its formal cause. In a short time, however, these definitions came to have a more metaphysical meaning, and even Aristotle himself, in the "Analytics" as cited, uses the words material and formal as denoting kinds of cause, in a sense much the same as they came to have afterward with the schoolmen of the middle ages. In this use the material cause is the essentia of the conception, and the formal cause is the differentia. Hence with them the definition of a thing is by means of its material and formal causes, that is, the essentia and differ-entia of its conception. In this view, to illustrate the uses of the word cause, the efficient cause of man would be his Creator; the material cause, in the physical sense, the carbon, oxygen, lime, e.c., of which his body is composed—in the metaphysical sense, the properties common to animal life; the formal cause, in the physical sense, would be any instrument or means with which creation had been effected, if such there were—in the metaphysical sense, it would be the distinguishing characteristics of human nature; and the final cause, in the lan-guage of a well known theological formulary, would be "to glorify God and enjoy Him forever. In reference to the material and formal can it is evident that the different senses of the word arose from a change in the real object contemplated. In the one case it was the outward visible object, the ontological reality; in the other, it was the conception of that reality; and hence the terms in modern use, "the matter of a conception," that is, those essential properties of the object by means of which it is considered and the content of the content nized as existing, and which Dr. Wilson in h "Logic," p. 209, propuses to call material properties, as being those on which demonstration is based. So, also, the formal cause of a conception can be only those properties by which its object, or objects, if is be the conception of a spe-

change itself from rest to motion. that case the motive of the agent and his gratification have come to be called the final cause, from motion to rest; 1 objects have been very though this is more properly, and generally in only secondary causes. fact in modern times, called the moving cause. causes arose among the schou Swedenborg, however, and after him the Swedenborgians also, generally and perhaps exclusively use the words final cause or end in they are called transient, permus manent causes; these 8 the metaphysical or subjective sense. That the 8 great theo s of t which was called efficient cause by Aristotle the creation a world. A good a safellows: The man Ware at has since been distinguished into two classes. And even his definition seems to be somewhat vague, "that which first moves something," that along and lights t out of or from which the force emanates that cause of the light warm as un caused the motion; this definition is found to streets; the gas or oil that bu apply equally to two distinct forces, called in nent cause; and the ignition or pr later times the efficient and the occasional cause. ing itself is the immanent cause. For example, in the explosion of gunpowder, will be seen that transient: the spark which ignites it would be called the may be efficient causes, was cause of the explosion; but yet the spark is a cause in a very different sense from the expancause must be not only but in the physical sense sive force of the gases, especially the nitrogen, which are consolidated in the powder. The also. If, now, God is of the universe, we have gases would not explode without the spark, nor ture itself is only God the spark cause an explosion without the gases, This is the the of L

or in case it had fallen upon sand or onion seed; and yet both are included in Aristo 's definition. The importance of this a inction ers, and in f

pantheism :

CAUSE 505

the creation of his own mind, and long as that mental activity in which their origin continues, and no lon-... this view the objects of nature would - denied to have any substantial reality, ed merely phenomenal. This seems been expressly announced by Coleridge; u these philosophers of course giving to the some modifications and peculiarities of Second causes, also, are sometimes ted as immediate or remote; immediate that antecedent of any effect which last in the order of time before it, the remote cause was any one of the · secondary causes (and sometimes even ient cause is so called) on which the nus are fixed. In the light of the distincvetween first and second causes, every of thought, except the absolute cause and by an absolute effect, is conceived as both and effect; and so cause and effect, with exception just made, are but alternate conof the same thing. Any object, conum reference to what preceded it, is an and in reference to what follows it in the of causation, is a cause. Then again, ally, causes are of 8 kinds: negatantial, and modal. A negative cause an ontological unreality, which, however, be denoted by either a positive or a negve term. Thus we say that cold congeals darkness makes the plants that grow to be white or without color; here and darkness are spoken of as causes, in a scientific point of view they a logarded as mere absences of positive re--heat and light being considered as real. the absence of heat, and darkness the ce of light. And in general, the absence either an occasional or an efficient cause is ken of as a cause of any event or result m would have been prevented if the cause had been present and active. The diswoon between substantial and modal causes s reference to the fact that a cause to be real be substantial, while its efficiency as a often depends upon its being in a certain mution. Thus, for illustration, when a man ps on a worm and crushes it to death, we say s step causes the worm's death. But the step not a substance, it is only a mode; the foot ased the worm's death, but only by being in mode of stepping. Hence the foot is the bstantial cause, the step the modal. This dis-otion is based upon an idea in relation to asation of which we shall speak more fully on, and which if it is received cannot fail to rt a great and very marked influence upon whole of the teachings of metaphysical nce.—Theories of causation are intimately unected with and dependent upon the theories the origin of the idea of cause. Of these ere are 4, which seem to be all that are posde. The first is the theory of innate ideas induced by Plato, modified by Carneades, and

adopted by the realists generally in the mediaval schools. The second is the theory first suggested by Leibnitz, and adopted by the mod-ern idealists generally, from Kant to Cousin and Sir William Hamilton, who seem to have given to it a more minute exposition and a more preëminent place than it had occupied even in the writings of Leibnitz. According to this theory, certain ideas, and among them that of cause, which represent to the mind objects not cognizable by the senses, are the product of the mind itself acting spontaneously and according to the laws of its own constitution. The third theory is that of the sensationalist, who holds that all ideas are produced from the action of objects upon the senses. It has been objected to this theory that it leaves no room for the distinction between causation and mere antecedence; and Hume so taught, denying that our idea of cause implied anything more than a mere uniform or general antecedence of that which we call the cause of any event. This is regarded as a successful reductio ad absurdum, for it is certain that all men make a distinction between cause and mere antecedent. Nobody is content to use the words as mere synonymes. For example, a man eats his breakfast and is hungry at noon, he eats a dinner and is hungry at evening, takes his supper and rises hungry again in the morning; and yet no one ever supposes that the food is the cause of the hunger that follows the taking it, notwithstanding the uniformity with which the one phenomenon follows the other. To the view of Leibnitz and the idealists it is objected, that if the principle of causation, namely, that every effect must have a cause, is evolved from the idea of cause, and the idea of cause is the mere spontaneous product of the mind, then neither the idea nor the principle of causation can rise to a certainty above the mere subjective necessity of our thinking thus and so rather than otherwise, which is in fact Sir William Hamilton's view; that is, the principle itself rests rather upon the nature of the admitting mind than upon that of the admitted truth. In view of these objections, and on other grounds, Dr. Wilson has proposed a new theory of the whole subject. In the first place, he denies both the Platonic and Carne dean theories of innate ideas, and the Leibnitz ian theory of their spontaneous production, and holds, in addition to Locke's theory of sensationalism, that we have a faculty of insight or intuition by which we cognize directly and imme diately objects, properties, and relations invisible to sense-perception. In the second place, he holds that the word cause, as used in this connection, is an abstract term. It may be a concrete term indeed, as when we speak of the cause of any particular thing; but in that case it denotes only an alternate conception of some reality which we have cognized by other properties, and for which we have another name. But taking the word cause to be an abstract term in its ordinary use without the article, he says that it must denote either a property,

effect. Thus, heat is a cause homogeneous to fluidity, and 212° Fahrenheit sufficient in quantity to produce the boiling of water; whereas a much lower degree would be inadequate, and electricity (except as producing heat) would not be a cause homogeneous to the effect. The laws for the investigation of causes are reserved for consideration under the head of In-DUCTION. —The question has been raised whether our ideas of causation imply the actual creation of any thing, or only a change in the form of its existence. At first, the idea of cause only includes the latter; for that is all that there is in the external phenomena from which we generalize our idea. And here again we encounter another peculiarity of the theories of causation, namely, the occasional cause of the idea of cause. It is commonly held that the idea of cause arises from seeing the changes that take place in outward nature. Maine de Biran held, on the contrary, that the idea doubtless first arose from observing in the phenomena of consciousness the fact of volition, in which we are conscious of the causal act of producing not only the volition or nisus that immediately precedes the physical act, but also of producing

ternate conceptions for cannot examine Hamilton a us subject in this place, but would gest the inquiry whether that philosopher has not committed take, and supposed that it is the for the object of the conception ditioned, and for the conception No conception unconditioned ! tioned. If positive, it is limited in tity, and conditioned by and so the essentia and differentia v material cause. But can we that the conception of the I conditioned, that tl conditioned or we cam r-Him t which last is Sir dilemma. The general du we have ideas or conceptions of th absolute; that while they are not, and that never can the quate idea of Him, ask wine of Him. On the contrary, we rec having the ground of I that the supposition of l absurdity, and in Him we

r, died July 29, 1885. He vu editions of some Arabian which were "Lokman's Faa. . first chapters of the "Koran;" islations of an historical or sciacter, and interesting memoirs in m of the academy of inscriptions. PIERRE, son of the preceding, born 1795, travelled in the East to perwledge of the Arabic. On his rece in 1822, he was appointed profesominon Arabian language, first in hool for oriental languages, then in of France. Beside an Arabic gramevised edition of "Ellious Bocthor's Arabic Dictionary," he has pubs des Arabes avant l'Islamisme, pens de Mahomet et jusqu'à la réduc-les les tribus sous la loi musulmans, Paris, 1847, and several translations

) (Gr. καιω, to burn), a class of subl for burning out diseased spots on id for creating artificial sores by rhich the system may be partially its impurities. In cases of interion these are found very beneficial.
mmon caustic employed is nitrate lunar caustic, being mild and effecther varieties are arsenic, blue vitriol, preparations of mercury.—Caustic, right light, formed by the intersec-cted or reflected rays. If of refractcalled a discaustic, if of reflected, a

The most familiar instance is seen cloth inside a polished napkin ring. ETS, a French watering place in ient of Hautes Pyrénées, situated basin 2,900 feet above the sea, and rugged mountains. It has hot ngs whose temperature varies from

Y (Gr. καυτηριον, burning), the flesh with caustic applications, as, or with a hot iron. The former by the ancients potential, and the ctual cautery.

city of Naples, in the province of Diteriore, situated in the agreeable nestra, 26 m. S. E. of Naples; pop.). It is the seat of a bishop, suffrapope, and has a cathedral, several ses, and a convent for gentlewomen. ; is unproductive, but the town y commerce and by manufactories on, and woollen. About one mile is the celebrated Benedictine mon-: Trinita della Cava, whose library now transferred to Naples, were

u the kingdom.

NAO. I. JEAN BAPTISTE, a member h national convention, born in 1762, died in 1829 at Brussels. Having rator of the Haute Garonne acpopularity in that department, he

was elected to the convention, where he voted for the death of Louis XVI. As commissary from that assembly to the army in the Vendée and afterward to that in the Pyrénées, he gave evidence of energy and talent. He took part with the Thermidoreans against Robespierre, and was sent on a third mission to the army of Rhin et Moselle. Having returned to Paris, he was on the 1st Prairial intrusted with the command of the troops to protect the convention against the rebels, but was unable to prevent their invading the hall of the assembly. On the 18th Vendémiaire, he was made an assistant to Barras in the defence of the convention, but had not much to do, owing to the ap-pointment by his colleague of the young Gen. Bonaparte, who took all the responsibility on himself and saved the convention. Cavaignas was for a while a member of the council of 500. On retiring from that assembly, his reduced circumstances constrained him to accept several inferior offices. In 1806 he entered the service of Naples under Joseph, and was appointed councillor of state by his successor Murat. He returned to France in 1812, and was in 1815, during the Hundred Days, appointed prefect of the Somme. On the 2d restoration, being expelled from France as a regicide, he repaired to Brussels, where he lived obscurely. II. ELÉONORE LOUIS Goderboy, a French republican journalist, the elder son of the preceding, born at Paris in 1801, died May 5, 1845. He was one of the most popular leaders of the republican party during the restoration and the reign of Louis Philippe. He distinguished himself in the revolution of July, but, disappointed by the elevation of Louis Philippe to the throne, he took a more or less active part in the conspiracies for the overthrow of the new dynasty. He was several times arrested and arraigned before the tribunals, but generally evaded condemnation through his skilful defence, while winning great popularity by his chivalric and dignified bearing in all his trials. He was one of the founders of the seoiété des amis du pouple, and on the dissolution of that association he was active in the more powerful organization of the société des droits de l'homme. After the troubles of 1884 he was arrested with several others, tried before a special court, and sentenced to prison. He was incarcerated at Ste. Pélagie, but succeeded in making his escape July 18, 1885, and retired to Belgium, where he spent nearly 6 years. 1841 he returned to France, and became one of the editors and in fact the inspiring mind of the Réforme, the most violent of the opposition journals. He was the author of Le cardinal Dubois, ou tout chemin mène à Rome, and Une tuerie de Coeaques, which are remembered only on account of his political reputation. III. Louis Eucker, a French general, and chief of the republic in 1848, 2d son of Jean Baptists, born in Paris, Oct. 15, 1802, died at his country seat, Château Ournes, near Flée, department of Sarthe, Oct. 28, 1857. He was educated at the polytechnic school, and entered the army as

sub-lieutenant of engineers, took part in the French expedition to the Morea, and was appointed to a captaincy in 1829. On the revolution of 1830, he was the first officer of his regiment to declare for the new order of things, but being soon dissatisfied with the tendencies of the government he entered the association nationale, an organization of the opposition, in consequence of which he was for a while discharged from active service. In 1832 he was sent to Africa, where he had to make his way by his own talents and prowess. Being intrusted in 1836 with the command of the fortress of Tlemcen, he held this advanced post for 3 years against the repeated assaults of the Arabs. When relieved in 1889 from his arduous task, his health having been impaired by incessant exertions, he asked to be placed on leave; he was then made a major. A few months later he returned to Africa, where his defence of Cherchell was no less brilliant than that of Tlemcen. In 1840 he was promoted to a lieutenantcolonelcy, and then to the colonelcy of the Zouaves. Finally, in 1844, he was made brigadier-general and governor of the province of Oran. On the revolution of February, 1848, he was appointed governor-general of Algeria, and promoted to the rank of general of division. The same year he was elected to the constituent assembly by both the departments of Seine and Lot; the latter being the native place of his family, he gave it his preference, and was allowed to leave Algeria to take his seat as a representative. He reached Paris 2 days after the disturbances of May 15, and was immediately appointed minister of war, with the condition that he should bring to Paris a sufficient number of troops to protect the capital against any popular outbreak. In a few weeks 75,000 regular troops were gathered within the walls, while 190,-000 national guards were ready to support them. All was ready for civil war, which broke out on the dissolution of the ateliers nationaux. On June 22 barricades were erected in the most central parts of the city. The executive committee of the constituent assembly advised that troops should be sent in all directions to anticipate hostile preparations; but Cavaignae refused, and concentrated his troops in order finally to bear on the principal points with ir-The assembly having at last resistible force. invested him with dictatorial powers, the struggle commenced in earnest June 23, at 11 o'clock, and lasted for 70 hours with scarcely an intermission. At last victory was secured to the government through the skilful measures of Cavaignac, the intrepidity of his fellow-generals, Bedeau, Lamoricière, Foucher, the firmness of the national guard, the courage of the regular troops, but above all, the exertions of the young gardes mobiles. On June 29 Cavaignac resigned his dictatorship, and the assembly unanimously elected him chief of the executive power. He was then the most popular man among the bourgeoisis; but he was disliked by the lower classes, and had, beside, drawn

upon himself the unreleating heave journalists, especially Rmile de Gi at once waged against him the mes warfare. Several proposition assembly to make him preside out recourse to an election; but ti trary to his principles, and he re the presidential election of although Cavaignac had at his di government patronage, he was an immense majority. Out of 7,44 an immense majority. Out of 7,440. Cavaignac received but 1,448,803, wi Napoleon had 5,584,520. Cave defeat with dignity and tranquillity 20 he resigned his power into the hand newly-elected president, and modestly a to his seat in the assembly. He continues part in the proceedings of that body, rarely, but with marked ability an the coup d'état of Dec. 1851, he was and taken to the castle of Ham, his n placed at the head of the list of the p Previous to this event he had be to Mile. Odier, daughter of a wealthy i Paris; after the coup d'état and the ruis republican party, efforts were made to be the match, but in vain; and the first i face which Cavaignac saw in the Ham, after his imprisonment, was t maiden who a few days later be the marriage taking place immediate release, when he was at his own recon the retired list of the army. quently lived for a time in retire gium, and when he returned to Fra mainly at his country seat in the dep Sarthe. In 1852 he was elected to t lative body, but refused to take the o legiance to the emperor. In 1857 he v chosen to the same office by the elec 8d district of Paris, as a kind of pro the existing form of government, but fused to take the oath. This was the lic act of his life. Grief and chegria measures of the government and the of thousands of his political friends to exile and misery had long emotions which aggravated a di heart, the germs of which had be in Africa; and one morning, as he his house to visit a friend, he in the arms of an attendant withou word. His devoted wife conveyed h to Paris, where they received the funeral procession in which many t persons took part. He left an only so CAVAILLON, a French town en t

CAVAILLON, a French town on the sixe Durance, in the department of Vanchus, and the arrondissement of Avignon; pop. 7,405. The an active trade in raw silk, fruits, and preserve, and manufactories of vermicell and modifications were stroyed. It was an ancient Roman twen, but having been repeatedly pillaged by barburies, and having suffered much from an earthquile in 1781, it has few remains of antiquity. The

ble of its ruins is a triumphal arch The country round Cavaillon is justly d the garden of the province.

AVALCANTI, Guido, an Italian philosoand poet, born in Florence in the early of the 18th century, died in 1800. Dante, was his friend, introduces Cavalcanti's father us Inferno into the regions of the condemned. account of his Epicurean philosophy. Guido distinguished for the lofty style of his , which was composed for the most part sounets and canzonets, the most celebrated ich are those dedicated to Mandetta, a whom he had met at Toulouse after his I from a pilgrimage to Compostella. Have rried a daughter of the Ghibelline chief degli Uberti, he succeeded his father-inlead of that party. When the leaders of ons were exiled by the citizens, Cavali was sent to Sarzana, where his health was nuch injured by the bad air, that he died soon his return. His Rime, edite ed inedite,

vere published by Cicciaporri at Florence, in 813. **CAVALIER**, JEAN, a leader of the Camisards gent Protestants in the Cevennes, born 1679 at Ribaute, in Languedoc, died in 1740, at Chelsea, a suburb of London. son of a poor peasant, he was first a shep-....d. then a journeyman baker. Religious perion afterward forced him to leave his cry, but after living a few months at Geva, he secretly came back, and was foremost ong the promoters of the insurrection of . J2. He was at once a preacher and a sollier, and his talents, devotion, and prophetic fifts gave him an authority almost equal to that of the Camisard commander-in-chief. rshal Villars took the command of the royal ops, Cavalier had an interview with him at nes, and agreed on terms of peace: the roung chief was to be received into the king's ervice, with the rank of colonel and a handome pension; a regiment was to be raised nong the Camisards, who were now to enjoy free exercise of their religion. This treaty not suit the other chiefs or the people. lavalier was immediately discarded by them, departed for Paris attended by very few comions. There he was treated with contempt y the king; and having received secret adrice that he was to be put in prison, he made is escape to Switzerland, whence he went to Holland. Having entered the service of Engi, he organized a regiment of French rees, whom he took to Spain to support the of Charles. At the battle of Almanza s regiment engaged a battalion of French ops, which fought with such fury that the greatest part of both corps were left dead on the pattle field. Cavalier afterward joined the army of Prince Eugène, who entered Provence and

resieged Toulon. After the peace of Utrecht, ne repaired to England, where he was received with great favor, obtaining the rank of general, and being appointed governor of the island of Jersey. An account of the "War in the Cevennes under Col. Cavalier" was published in English in 1726. Probably it was not written by Cavalier himself, and is of very little value. Engage Spa has also a very little value. Eugène Sue has also furnished

work founded upon his life.

CAVALIER (Spanish caballero), a gentleman who fought on horseback, in the first instance, when the cavalry of European armies consisted wholly of the feudal landed aristocracy, with the gentlemen of their follow-ings. In its secondary sense, both in Spanish and English, the word came to signify absolutely, and without any reference to its derivation or origin, a nobleman or gentleman of birth and breeding; and, as a yet further deduction, a gentleman of manners, accomplishments, and air. In the reign of Charles I. of England, the word, being used probably by the upper classes somewhat absolutely and hypercritically, so as to be offensive to their inferiors, received a particular and pointed application, which it long continued to bear in England, as signifying one attached to the court and high church party, and thereafter a Jacobite, or one attached to the Stuart family and favorable to their restoration, after the transfer of the crown to the houses of Nassau and Brunswick. It is commonly asserted that this usage of the word is to be ascribed, as is the case with many if not most political and party nicknames, to its introduction by the opposite faction as a term of de-rision. This may be and probably is true in rision. some degree; but it was certainly applied by gentlemen to themselves and to one another, before it was employed as a by-name of party reproach.

OAVALIERI, or Cavalleri, Bonaventura, an Italian mathematician, born in Milan in 1598, died in Bologna, Dec. 8, 1647. He studied mathematics at Pisa under B. Castelli, a disciple of Galileo, officiated as professor in Bologna, and was author of several mathematical works, the most prominent of which was entitled Geometria Indivisibilibus, &c. Having expressed in this work some original ideas concerning the abstruse sciences, the Italians claim him to be the inventor of the infinitesimal calculus.

CAVALLINI, Prerro, a Roman painter, who flourished in the latter part of the 18th and in the early part of the 14th century. He was the disciple of Giotto, and the first painter of the Roman school who was worthy of competing with the great Florentine masters. His most celebrated work, a picture of the "Crucifixion," is at Assisi. Most of his other works are now destroyed.

OAVALLO, Tresserus, an electrician, born in Naples in March, 1749, was a resident of London during the greatest part of his life, and died there in Dec. 1809. He was the son of a Neapolitan physician, completed his education in the university of his native city, and went at an early age to England with a view of becom-ing a merchant; but devoting himself to the

period. Built is is certain that at reast a couple of centuries before the country was conquered to act in compact bodies in a n by the Persians, the Egyptians had a numerous The Macedonians, however, we match for them. With that prop cavalry, and the commander of this arm is more than once named among the most important ship was an accomplishment indi officials of the court. It is very likely that the the young nobility, and cavalry rank in their army. The cavalry c Egyptians became acquainted with cavalry dur-Alexander consisted of the Mac Thessalian nobility, with a fev ing their war with the Assyrians; for on the Assyrian monuments horsemen are often delineated, and their use in war with Assyrian armies recruited in Greece proper. It at a very early period is established beyond a doubt. With them, also, the saddle appears to of heavy horsemen—cataphre helmet and breastplate, c spear. It usually charged in a co have originated. In the older sculptures the soldier rides the bare back of the animal; at a an oblong or wedge-shaped colalso in line. The light car later epoch we find a kind of pad or cushion introduced, and finally a high saddle similar to that now used all over the East. The Persians auxiliary troops, was of a TO OF kind, and served like the cuss and Medians, at the time they appear in history, for outpost duty and skirmishing were a nation of horsemen. Though they retainof the Granic 1 B. C.) a stance of an en_i ed the war chariot, and even left to it its ancient m in whi precedence over the younger arm of cavalry, yet a decisive part. And Pers charging distance from twe the great numerical strength of the mounted men gave the latter an importance it had soon as the heads of colum never po-sessed in any former service. infantry had passed the ra-The cavalry of the Assyrians, Egyptians, and Percould deploy, the Persian . sians consisted of that kind which still prevails them and drove them hemu in the East, and which, up to very recent times, into the river. This manusers

and charged the Persians in flank. A at ensued, but the Persian horsemen weed in one line without reserves, at last abandoned by the Asiatic their army, were ultimately routed. of Arbela (361 B. C.) was the most r the Macedonian cavalry: Alexander led the Macedonian horse, which extreme right of his order of battle, Thessalian horse formed the left. ans tried to outflank him, but in the ioment Alexander brought fresh men rear so as to overlap them in their r at the same time left a gap be-ir left and centre. Into this gap at once dashed, separating their left cemainder of the army, rolling it up , and pursuing it for a considerable Then, on being called upon to send to his own menaced left, he rallied in a very short time, and passing be-enemy's centre fell upon the rear of The battle was thus gained, and from that day ranks among the cavalry generals of all times. And the work, his cavalry pursued the nemy with such ardor that its adrd stood the next day 75 miles in the battle-field. It is very curious that the general principles of cavalry re as well understood at that time as iow. To attack infantry in the forthe march, or during a change of ; to attack cavalry principally on its profit by any opening in the enemy's ing in and wheeling to the right and take in flank and rear the troops t to such a gap; to follow up a victory and inexorable pursuit of the broken nese are among the first and most rules that every modern cavalry offilearn. After Alexander's death we ore of that splendid cavalry of Greece ion. In Greece infantry again pre-i in Asia and Egypt the mounted on degenerated.—The Romans never emen. What little cavalry they had legions was glad to fight on foot. ses were of an inferior breed, and the not ride. But on the southern side of stranean a cavalry was formed, which valled, but even outshone that of Alexthe Carthaginian generals, Hamilcar ibal, had succeeded in forming, be-Numidian irregular horsemen, a body to regular cavalry, and thus created which almost everywhere insured ctory. The Berbers of north Africa the present day, a nation of horseeast in the plains, and the splendid e which carried Hannibal's swordsthe deep masses of the Roman inith a rapidity and vehemence unore, still mounts the finest regiments of French cavalry, the chasseurs d'Afis by them acknowledged to be the

best war-horse in existence. The Carthaginism infantry was far inferior to that of the Romans, even after it had been long trained by its two great chiefs; it would not have had the slightest chance against the Roman legions, had it not been for the assistance of that cavalry which alone made it possible for Hannibal to hold out 16 years in Italy; and when this cavalry had been worn out by the wear and tear of so many campaigns, not by the sword of the enemy, there was no longer a place in Italy for him. Hannibal's battles have that in common with those of Frederic the Great, that most of them were won by cavalry over first-rate infantry; and, indeed, at no other time has cavalry per formed such glorious deeds as under those two great commanders. . From what nation, and upon what tactical principles, Hamiltar and Hannibal formed their regular cavalry, we are not precisely informed. But as their Numidian light horse are always clearly distinguished from the heavy or regular cavalry, we may conclude that the latter was not composed of Berber tribes. There were very likely many foreign mercenaries and some Carthaginians; the great mass, however, most probably con-sisted of Spaniards, as it was formed in their country, and as even in Cæsar's time Spanish horsemen were attached to most Roman armice. Hannibal being well acquainted with Greek civilization, and Greek mercenaries and soldiers of fortune having before his time served under the Carthaginian standards, there can scarcely be a doubt that the organization of the Grecian and Macedonian heavy cavalry served as the basis for that of the Carthaginian. The very first encounter in Italy settled the question of the superiority of the Carthaginian horse. At the Ticinus (218 B. C.), the Roman consul Publius Scipio, while reconnoitring with his cavalry and light infantry, met with the Carthaginian cavalry led by Hannibal on a similar errand. Hannibal at once attacked. The Roman light infantry stood . in first line, the cavalry formed the second. The Carthaginian heavy horse charged the infantry, dispersed it, and then fell at once on the Roman cavalry in front, while the Numidian irregulars charged their flank and rear. The battle was short. The Romans fought bravely, but they had no chance whatever. They could not ride; their own horses vanquished them; frightened by the flight of the Roman skirmishers, who were driven in upon them and sought shelter between them, they threw off many of their riders and broke up the formation. Other truopers, not trusting to their horsemanship, wisely dismounted and attempted to fight as infantry. But already the Carthaginian cuirassiers were in the midst of them, while the inevitable Numidians galloped round the confused mass, cutting down every fugitive who detached himself from it. The loss of the Romans was considerable, and Publius Scipio himself was wounded. At the Trebia, Hannibal succeeded in enticing the Ro mans to cross that river, so as to fight with this

40,000 iniantry and 10,000 cavairy. TUG CUAune empire, unuer Justinian, alry of Latium formed the Roman right wing, on a comparatively respectable leaning on the river Aufidus; that of the allied in the battle of Capua. in A. D. & Italians stood on the left, while the infantry formed the centre. Hannibal, too, placed his Narses is reported to l e invaders of Italy prince y by arm.—The establish us, in a infantry in the centre, the Celtic and Spanish levies again forming the wings, while between western Europe, of a conquering Teutonic origin, led to a new err of cavalry. The nobility took the mounted service, under the them, a little further back, stood his African infantry, now equipped and organized on the Roman system. Of his cavalry, he placed men-at-arms (gens d'armes), su of horse of the heaviest descri the Numidians on the right wing, where the open plain permitted them, by their superior not only the riders but also the covered with defensive armor mobility and rapidity, to evade the charges of the Italian heavy horse opposed to them; while the whole of the heavy cavalry, under Hasdrubal, battle at which such cavairy was stationed on the left, close to the river. On the Roman left, the Numidians gave the that at Poitiers, where Charles beat back the torrent of Arab Frankish knighthood, under Italian cavalry plenty to do, but from their very nature as irregular horse could not break Aquitania, broke through the up their close array by regular charges. In the and took their camp. But se not fit for pursuit; and the Ara centre, the Roman infantry soon drove back the Celts and Spaniards, and then formed into under shelter of their a wedge-shaped column in order to attack the horse, retired u African infantry. These, however, wheeled inthis battle da ward, and charging the unwieldy mass in line, massive but unwice !

broke its impetus; and there the battle, now, bea star ng fight. But Hasdrubal's heavy

West fought the varied success. • a kı 4 271179 1 000

ly destroyed; neither they nor their horses could stand the climate, the immensely long marches, and the want of proper food and forage. These crusades were followed by a fresh irruption of eastern horsemen into Europe, that of the Mongols. Having overrun Russia, and the provinces of Poland, they were met at Wahlstatt in Silesia, in 1241, by a combined Polish and German army. After a long struggle, the Asiatics defeated the worn-out steelclad knights, but the victory was so dearly bought that it broke the power of the invaders. The Mongols advanced no further, and soon, by divisions among themselves, ceased to be dangerous, and were driven back. During the whole of the middle ages, cavalry remained the chief arm of all armies: with the eastern nations the light irregular horse had ways held that rank; with those of western Europe, the heavy regular cavalry formed by the knighthood was in this period the arm which decided every battle. This preeminence Of the mounted arm was not so much, caused by its own excellence, for the irregulars of the East were incapable of orderly fight, and the regulars of the West were clumsy beyond belief in their movements; it was principally Caused by the bad quality of the infantry.
Asiatics as well as Europeans held that arm in contempt; it was composed of those who could not afford to appear mounted, princi-Pally of slaves or serfs. There was no proper organization for it; without defensive armor, with a pike and sword for its sole wea-Pons, it might now and then by its deep fornation withstand the furious but disorderly Charges of eastern horsemen; but it was resistlessly ridden over by the invulnerable men-atformed by the English infantry, which derived its strength from its formidable weapon, the long-bow. The numerical proportion of the European cavalry of these times to the remainder of the army was certainly not as strong as it was a few centuries later, nor even as it is now. Knights were not so exceedingly numerous, and in many large battles we find that not more than 800 or 1,000 of them were present. But they were generally sufficient to dispose of any number of foot soldiers, as soon as they had succeeded in driving from the field the enemy's men-at-arms. The general mode of fighting of these men-atarms was in line, in single rank, the rear rank being formed by the esquires, who wore, generally speaking, a less complete and heavy suit of armor. These lines, once in the midst of the enemy, soon dissolved themselves into single combatants, and finished the battle by sheer hand-to-hand fighting. Subsequently, when firearms began to come into use, deep masses were formed, generally squares; but then the days of chivalry were numbered. During the 15th century, not only was artillery introduced into the field of battle, while part of the infantry, the skirmishers of those times, were armed

with muskets, but a general change took place in the character of infantry. This arm began to be formed by the enlistment of mercenaries who made a profession of military service. German Landsknechts and the Swiss were such professional soldiers, and they very soon introduced more regular formations and tactical movements. The ancient Doric and Macedonian phalanx was, in a manner, revived; a helmet and a breastplate somewhat protected the men against the lance and sword of the cavalry; and when, at Novara (1513), the Swiss infantry drove the French knighthood actually from the field, there was no further use for such valiant but unwieldy horsemen. Accordingly, after the insurrection of the Netherlands against Spain, we find a new class of cavalry, the German Reiters (reitres of the French), raised by voluntary enlistment, like the infantry, and armed with helmet and breastplate, sword and pistols. They were fully as heavy as the modern cuirassiers, yet far lighter than the knights. They soon proved their superiority over the heavy men-at-arms. These now disappear, and with them the lance; the sword and short firearms now form the general armature for cavalry. About the same time (end of the 16th century) the hybrid arm of dragoons was introduced, first in France, then in the other countries of Europe. Armed with muskets, they were intended to fight, according to circumstances, either as infantry or as cavalry. similar corps had been formed by Alexander the Great under the name of the dimacha, but it had not yet been imitated. The dragoons of the 16th century had a longer existence, but toward the middle of the 18th century they had everywhere lost their hybrid character, except in name, and were generally used as cavalry. The most important feature in their formation was that they were the first body of regular cavalry which was completely deprived of defensive armor. The creation of real hybrid dragoons was again attempted, on a large scale, by the emperor Nicholas of Russia; but it was soon proved that, before the enemy, they must always be used as cavalry, and consequently Alexander II. very soon reduced them to simple cavalry, with no more pretensions to dismounted service than hussars or cuirassiers. Maurice of Orange, the great Dutch commander, formed his Reiters for the first time in something like our modern tactical organization. He taught them to execute charges and evolutions in separate bodies, and in more than one line; to wheel, break off, form column and line, and change front, without disorder, and in separate squadrons and troops. Thus a cavalry fight was no longer decided by one charge of the whole mass, but by the successive charges of separate squadrons and lines supporting each other. His cavalry was formed generally 5 deep. In other armies it fought in deep bodies, and where a line formation was adopted it was still from 5 to 8 deep. The 17th century, having completely done away with the costly men-at-



arms, increased the numerical strength of cavalry to an enormous extent. At no other period was there so large a proportion of that arm in every In the 80 years' war from ? to nearly } of each army was generally composed of cavalry; in single instances there were 2 horsemen to 1 foot soldier. Gustavus Adolphus stands at the head of cavalry commanders of this period. His mounted troops consisted of cuirassiers and dragoons, the latter fighting almost always as cavalry. His cuirassiers, too, were much lighter than those of the emperor, and soon proved their incontestable superiority. The Swedish cavalry were formed 8 deep; their orders were, contrary to the usage of the cuirassiers of most armies, whose chief arm was the pistol, not to lose time in firing, but to charge the enemy sword in hand. At this period the cavalry, which during the middle ages had generally been placed in the centre, was again placed, as in antiquity, on the wings of the army, where it was formed in 2 lines. In England, the civil war gave rise to 2 distinguished cavalry leaders. Prince Rupert, on the royalist side, had as much "dash" in him as any cavalry general, but he was almost always carried too far, lost his cavalry out of hand, and was himself so taken up with what was immediately before him, that the general always disappeared in the "bold dragoon." Cromwell, on the other hand, with quite as much dash where it was required was a far better general; he kept his men well in hand, always held back a reserve for unforeseen events and decisive movements, knew how to manœuvre, and thus proved generally victorious over his inconsiderate opponent. He won the battles of Marston Moor and Naseby by his cavalry alone.-With most armies the use of the firearm still remained the chief employment of cavalry in battle, the Swedes and English alone excepted. In France, Prussia, and Austria. cavalry was drilled to use the carabine exactly as infantry used the musket. They fired on horseback, the line standing still all the while, by files, platoons, ranks, &c.; and when a movement for a charge was made, the line advanced at a trot, pulled up at a short distance from the enemy, gave a volley, drew swords, and then charged. The effective fire of the long lines of infantry had shaken all confidence in the charge of a cavalry which was no longer protected by armor; consequently, riding was neglected, no movements could be executed at a quick pace, and even at a slow pace accidents happened by the score to both men and horses. The drill was mostly dismounted work, and their officers had no idea whatever of the way of handling cavalry in battle. The French, it is true, sometimes charged sword in hand, and Charles XII. of Sweden, true to his national tradition, always charged full speed without firing, dispersing cavalry and infantry, and sometimes even taking field works of a weak profile. But it was reserved for Frederic the Great and his great cavalry commander, Seydlitz, to revolutionize the mounted service, and

to raise it The Prussic horses, drill father had le instant at Mo first Silesian erio entirely and dismou background, evolutions speed, all w alry officers into perfect handy and e well exercis men were to ground, acre back, were t firing at all lines of the "Every sq charge, is to and no com troops fire u the generals this. As the quick trot, well closed; majesty is o broken. always pres but 2 things to charge speed and These pass sufficiently (ried out in admirably b his cuirassic troops of the of charge, qu flank attack forming aft equalled the war. The henfriedberg goons, 10 sq wing of the ions, took 60 prisoners. infantry had with 36 squa cavalry from Russian infa great slaugh selsdorf, Leu eric owed th When the F the Austrian but not so latter nation ized by the r the war the When less. met by the sians, and A

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lost uniformly beaten. The cavalry, to cope with such opponents, was alreserve until a few years' campaign-roved them. Since 1796 and afterdivision of infantry had cavalry as a ill, at Würzburg, the whole of the alry was defeated by 59 Austrian 1796). When Napoleon took the difairs in France, he did his best to im-'rench cavalry. He found about the ial that could be met with. As a nanch are decidedly the worst horsemen and their horses, good for draught, l adapted for the saddle. Napoleon 3 but an indifferent rider, and negig in others. Still he made great its, and after the camp of Boulogne, in great part, mounted on German horses, was no despicable adversary. gns of 1805 and 1806-'7 allowed his bsorb almost all the horses of the d Prussian armies, and beside, reenpleon's army by the excellent cavalry deration of the Rhine and the grand areaw. Thus were formed those lasses of horsemen with which Na-1 in 1809, 1812, and the latter part hich, though generally designated were in great part composed of ad Poles. The cuirass, which had ly done away with in the French ly before the revolution, was reportion of the heavy cavalry by In other respects the organization ient remained nearly the same, exith his Polish auxiliaries he received ents of light horse, armed with the stume and equipment of which were ted in other armies. But in the of cavalry he introduced a complete ccording to the system of composing d army corps of all 3 arms, a porlight cavalry was attached to each corps; but the mass of the arm, illy all the heavy horse, were held reserve for the purpose of striking ple moment a great decisive blow, f need, of covering the retreat of the se masses of cavalry, suddenly apa given point of the battle-field, have decisively; still, they never gained ant successes as the horsemen of e Great. The cause of this is to be partly in the changed tactics of inich, by selecting chiefly broken its operations, and always receiving s square, made it more difficult for irm to achieve such great victories sian horsemen had obtained over the infantry lines of their opponents. so certain that Napoleon's cavalry just to that of Frederic the Great, apoleon's cavalry tactics were not stance an improvement upon those The indifferent riding of the apelled them to charge at a com-

paratively slow pace, at a trot or a collected canter; there are but few instances where they charged at a gallop. Their great bravery and close ranks made up often enough for the curtailed impetus, but still their charge was not what would now be considered good. The old system of receiving hostile cavalry standing, carabine in hand, was in very many cases re-tained by the French cavalry, and in every such instance were they defeated. The last example of this happened at Danigkow (April 5, 1813), where about 1,200 French cavalry thus awaited a charge of 400 Prussians, and were completely beaten in spite of their num-As to Napoleon's tactics, the use of great masses of cavalry with him became such a fixed rule, that not only was the divisional cavalry weakened so as to be completely useless, but also in the employment of these masses he often neglected that successive en-gagement of his forces which is one of the principal points in modern tactics, and which is even more applicable to cavalry than to infantry. He introduced the cavalry charge in column, and even formed whole cavalry corps into one monster column, in such formations that the extrication of a single squadron or regiment became an utter impossibility, and that any attempt at deploying was entirely out of the question. His cavalry generals, too, were not up to the mark, and even the most brilliant of them, Murat, would have cut but a sorry figure if opposed to a Seydlitz. During the wars of 1813, '14, and '15, cavalry tactics had decidedly improved on the part of Napoleon's opponents. Though to a great extent following Napoleon's system of holding cavalry in reserve in large masses, and therefore very often keeping the greater portion of the cavalry entirely out of an action, still in many instances a return to the tactics of Frederic was attempted. In the Prussian army the old spirit was revived. Blücher was the first to use his cavalry more boldly, and generally with success. The ambuscade of Haynau (1813), where 20 Prussian squadrons rode down 8 French battalions and took 18 guns, marks a turning point in the modern history of cavalry, and forms a favorable contrast to the tactics of Lutzen, where the allies held 18,000 horse entirely in reserve until the battle was lost, although a more favorable cavalry ground could not be found .- The English had never adopted the system of forming large masses of cavalry, and had therefore many successes, although Napier himself admits that their cavalry was not so good at that time as that of the French. At Waterloo (where, by the way, the French cuirassiers for once charged at full speed), the English cavalry was admirably handled and generally successful, except where it followed its national weakness of getting out of hand. Since the peace of 1815, Napoleon's tactics, though still preserved in the regulations of most armies, have again made room for those of Frederic. Riding is better attended to, though still not at all to the

norses, and the pest 1 the chasseurs d'Afrique tne lancers mostly in the rollsh provinces. The recruiting of the horses, however, deserves especial notice. In England, where the whole with them, but the otl get any. Thus in case or a French are compelled to buy: cavalry does not require in time of war above 10,000 horses, the government finds no difficulty in buying them; but in order to insure in England, but mostly in n to the service the benefit of horses not worked where they do not get the b till nearly 5 years old, 8-year-old colts, mostly though each horse costs ti Yorkshire bred, are bought and kept at government expense in depots till they are fit Many condemned horses fr regiments find their way in. h to be used. The price paid for the colts (£20 French, and altogether the F to £25), and the abundance of good horses in the country, make the British cavalry certainly the best mounted in the world. In chauseure d'Afrique excepteu. mounted in Europe.—Cavalry 2 kinds: heavy and light. The Russia a similar abundance of horses exists, character of the 2 is in though the breed is inferior to the English. and powerful horses c The remount officers buy the horses by whole-sale in the southern and western provinces of with small, active, abu mer in a charge act lethe empire, mostly from Jewish dealers; they greater weight; the l re-sell those that are unfit, and hand over to and impetuosity of the various regiments such as are of its color over far more fit we (all horses being of the same color in a Russian mishing, for which heavy regiment). The colonel is considered as it were neither handy nor intel proprietor of the horses; for a round sum paid far the distinction is to him he has to keep the regiment well mountfancy, and the ed. The horses are expected to last 8 years. costumes, have u

Formerly they were taken from the large

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and varieties, to mouve

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preferable for thrusts, the second for cuts. The question as to the advantages of the lance over the sword is still under discussion. For close encounter the sword is undoubtedly preferable; and in a charge the lance, unless too long and heavy to be wielded, can scarcely act at all, but in the pursuit of broken cavalry it is found most effective. Of nations of horsemen, almost all trust to the sword; even the Cossack abandons his lance when he has to fight against the expert swordsmen of Circassia. The pistol is useless except for a signal shot; the carabine is not very effective, even if rifled, and never will be of much real use until a breechloading one is adopted; the revolver in skilful hands is a formidable weapon for close encounter; still the queen of weapons for cavalry is a good, sharp, handy sword.—Beside the saddle, bridle, and armed rider, the cavalry horse has to carry a valise with reserve clothing, camp atensils, grooming tackle, and in a campaign also food for the rider and forage for itself. The sum total of this burden varies in dif-ferent services and classes of cavalry, be-tween 250 and 800 lbs. for the heavy marching order, a weight which will appear enormous when compared with what private saddle horses have to carry. This overweighting the horses is the weakest point of all cavalry. Great reforms are everywhere required in this respect. The weight of the men and accourrements can and must be reduced, but as long as the present system lasts, this drag upon the horses is always to be taken into account whenever we judge of the capabilities of exertion and endurance of cavalry. Heavy cavalry, composed of strong but, if possible, comparatively light men, on strong horses, must act principally by the force of a well-closed, solid charge. This requires power, endurance, and a certain physical weight, though not as much as would render it unwieldy. There must be speed in its movements, but no more than is compatible with the highest degree of order. Once formed for the attack, it must chiefly ride straight forward; but whatever comes in its path must be swept away by its charge. The riders need not be, individually, as good horsemen as those of light cavalry; but they must have full command over their horses, and be accustomed to ride straight forward and in a well-closed mass. horses, in consequence, must be less sensible to the leg, nor should they have their haunches too much under them; they should step out well in their trot, and be accustomed to keep well together in a good, long hand gallop. Light cavalry, on the contrary, with numbler men and quicker horses, has to act by its rapidity and ubiquity. What it lacks in weight must be made up by speed and activity. It will charge with the greatest vehemence; but when preferable, it will seemingly fly in order to fall upon the enemy's flank by a sudden change of front. Its superior speed and fitness for single combat render it peculiarly fit for pursuit.

chiefs require a quicker eye and a greater presence of mind than those of heavy horse. men must be, individually, better horsemen; they must have their horses perfectly under control, start from a stand into a full gallop, and again stop in an instant; turn quick, and leap well; the horses should be hardy and quick, light in the mouth, and obedient to the leg, handy at turning, and especially broken in for working at a canter, having their haunches well under them. Beside rapid flank and rear attacks, ambuscades, and pursuit, the light cavalry has to do the greater part of the outpost and patrolling duty for the whole army; aptness for single combat, the foundation of which is good horsemanship, is therefore one of its principal requirements. In line, the men ride less close together, so as to be always pre-pared for changes of front and other evolutions. -The English have nominally 18 light and 18 heavy regiments (dragoons, hussars, lancers; the 2 regiments of life-guards alone are cuirassiers); but in reality all their cavalry, by composition and training, are heavy cavalry, and little different in the size of men and horses. For real light cavalry service they have always used foreign troops—Germans in Europe, native irregulars in India. The French have 3 kinds: light cavalry hussars and chasseurs, 174 squadrons; line cavalry, lancers and dragoons, 120 squadrons; reserve cavalry, 78 squadrons, cuirassiers and carabineers. Austria has 96 squadrons of heavy cavalry, dragoons and cuirassiers; and 192 squadrons of light, hussars and lancers. Prussia has, of the line, 80 squadrons of heavy horse, cuirassiers and lancers; and 72 squadrons of light horse, dragoons and hussars; to which may be added, in case of war, 186 squadrons of lancers of the first levy of the landwehr. The second levy of the landwehr cavalry will scarcely ever be formed separately. The Russian cavalry consists of 160 heavy squadrons, cuirassiers and dragoons; and 804 light squadrons, hussars and lancers. The formation of the dragoon corps for alternate mounted and infantry duty has been abandoned, and the dragoons incorporated with the heavy cavalry. The real light cavalry of the Russians, how-ever, are the Cossacks, of whom they always have more than enough for all the outpost, reconnoitring, and irregular duties of their armies. In the U.S. army there are 2 regiments of dragoons, 1 of mounted riflemen, and 2 styled cavalry; all of which regiments, it has been recommended, should be called regiments of cavalry. The U.S. cavalry is really a mounted infantry.—The tactical unity in cavalry is the squadron, comprising as many men as the voice and immediate authority of one commander can control during evolutions. The strength of a squadron varies from 100 men (in England) to 200 men (in France); those of the other armies also being within these limits. Four, 6, 8, or 10 squadrons form a regiment. The weakest regiments are the English (400 to 480 men); the strongest the Austrian light horse (1,600



in battle is eminently a hand-to-hand encounter; its fire is of subordinate importance; steel -either sword or lance—is its chief weapon; and all cavalry action is concentrated in the charge. Thus the charge is the criterion for all movements, evolutions, and positions of cavalry. Whatever obstructs the facility of charging is faulty. The impetus of the charge is produced by concentrating the highest effort both of man and horse into its crowning moment, the moment of actual contact with the enemy. In order to effect this, it is necessary to approach the enemy with a gradually increasing velocity, so that the horses are put to their full speed at a short distance from the enemy only. Now the execution of such a charge is about the most difficult matter that can be asked from cavalry. It is extremely difficult to preserve perfect order and solidity in an advance at increasing pace, especially if there is much not quite level ground to go over. The difficulty and importance of riding straight forward is here shown; for unless every rider rides straight to his point, there arises a pressure in the ranks, which is soon rolled back from the cen-

at least of the victorious troop has up its tactical formation, in order the sword the harvest of victor successful charge at once decides but unless followed up by pursu combat, the victory would be c fruitless. It is this immense prep the party which has preserved its pactness and formation, over the o lost it, which explains the impos regular cavalry, be it ever so go merous, to defeat regular cavalry. doubt that so far as individual and swordsmanship is concerned cavalry ever approached the irre nations of horse-warriors of the I the very worst of European re has always defeated them in the fie defeat of the Huns at Chalons (4) poy mutiny of 1857, there is not stance where the splendid but irr men of the East have broken a sing regular cavalry in an actual char regular swarms, charging withou compactness, cannot make any imp the solid, rapidly moving n

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the worst regular cavalry then nich defeated in every instance the lid of irregular horsemen, the Mam-poleon said of them, 2 Mamelukes edly superior to 8 Frenchmen; 100 were a match for 100 Mamelukes; men generally beat 300 Mamelukes; chmen in every instance defeated slukes. However great may be the in a charge of that body of cavalry preserves its tactical formation, it is t even this body must, after the sucge, be comparatively disordered. of the charge is not equally deciy point; many men are irretrievably single combat or pursuit; and it is ely but a small portion, mostly bethe second rank, which remains in of line. This is the most dangerous cavalry; a very small body of fresh wn upon it, would snatch the victory ds. To rally quickly after a charge is ne criterion of a really good cavalry, this point that not only young but ise experienced and brave troops are The British cavalry, riding the most ses, are especially apt to get out of lave almost everywhere suffered set (e. g., at Waterloo and Balaklava). , on the rally being sounded, is generome divisions or squadrons, specially al regulations designated for this serthe mass of the troops re-form to be l emergencies. For the disorganized of the victors, after a charge, is innough to always keep a reserve in may be launched in case of failure instance; and thus it is that the first dry tactics has always been, never to e than a portion of the disposable time. This general application of Il explain the variable nature of large ibats, where the tide of victory ebbs o and fro, either party being beaten until the last disposable reserves ower of their unbroken order to bear isordered, surging mass, and decide Another very important circume ground. No arm is so much conhe ground as cavalry. Heavy, deep eak the gallop into a slow canter; which a single horseman would clear king at it, may break the order and the line; and an obstacle easy to esh horses will bring down animals een trotted and galloped about withcom early morning. Again, an unstacle, by stopping the advance and change of front and formation, may hole line within reach of the enemy's An example of how cavalry uld not be made, was Murat's great he battle of Leipsic. He formed 14,n into one deep mass, and advanced

nans. Of this there is no better exam-

at of Napoleon's dragoons in Egypt,

on the Russian infantry which had just been repulsed in an attack on the village of Wachau. The French horse approached at a trot; about 600 or 800 yards from the allied infantry they broke into a canter; in the deep ground the horses soon got fatigued, and the impulse of the charge was spent by the time they reached the squares. Only a few battalions which had suffered severely were ridden over. Passing round the other squares, the mass galloped on through the second line of infantry, without doing any harm, and finally arrived at a line of ponds and morasses which put a stop to their progress. The horses were completely blown, the men in disorder, the regiments mixed and uncontrollable; in this state two Prussian regiments and the Cossacks of the guard, in all less than 2,000 men, surprised their flanks and drove them all pell mell back again. In this instance there was neither a reserve for unforeseen emergencies, nor any proper regard for pace and distance; the result was defeat.—The charge may be made in various formations. Tacticians distinguish the charge en muraille, when the squadrons of the charging line have none or but very small intervals between each other; the charge with intervals, where there are from 10 to 20 yards from squadron to squadron; the charge en échelon, where the successive squadrons break off one after the other from one wing, and thus reach the enemy not simultaneously but in succession, which form may be much strengthened by a squadron in open column on the outward rear of the squadron forming the first échelon; finally, the charge in This last is essentially opposed to column. the whole of the former modes of charging, which are all of them but modifications of the line attack. The line was the general and fundamental form of all cavalry charges up to Napoleon. In the whole of the 18th century, we find cavalry charging in column in one case only, i. s. when it had to break through a surrounding enemy. But Napoleon, whose cavalry was composed of brave men but bad riders, had to make up for the tactical imperfections of his mounted troops by some new contrivance. He began to send his cavalry to the charge in deep columns, thus forcing the front ranks to ride forward, and throwing at once a far greater number of horsemen upon the selected point of attack than could have been done by a line attack. The desire of acting with masses, during the campaigns succeeding that of 1807, became with Napoleon a sort of monomania. He invented formations of columns which were perfectly monstrous, and which, happening to be successful in 1809, were adhered to in the later campaigns, and helped to lose him many a battle. He formed columns of whole divisions either of infantry or of cavalry, by ranging deployed battalions and regiments one behind the other. This was first tried with cavalry at Eckmuhl, in 1809, where 10 regiments of cuirassiers charged in column, 2 regiments deployed in front, 4 similar lines following at distances of



is made in several lines at charging intervals, supporting and relieving each other during a prolonged engagement. Napoleon, too, was the first to form his cavalry into masses of several divisions, called corps of cavalry. As a means of simplifying the transmission of commands in a large army, such an organization of the reserve cavalry is eminently necessary; but when maintained on the field of battle, when these corps had to act in a body, it has never produced any adequate results. In fact, it was one of the main causes of that faulty formation of monster columns which we have already mentioned. In the present European armies, the cavalry corps is generally retained, and in the Prussian, Russian, and Austrian services, there are even established normal formations and general rules for the action of such a corps on the field of battle, all of which are based on the formation of a first and second line and a reserve, together with indications for the placing of the horse artillery attached to such a body.—We have hitherto spoken of the action of cavalry so far only as it is directed against cavalry. But one of the principal purposes for which this arm is used in battle, in fact its principal use now-a-days, is its action against infantry. We have seen that in

his men on such infantry. At W grand charges with the mass of ti serve cavalry on Wellington's cen break the English and German squ these troops, sheltered a good der crest of the ridge, had suffered ve the preceding cannonade, and we as good as intact. Such charges, adapted for the last stage of a bati the infantry has been a good deal exhausted both by actual engage passivity under a concentrated And in such cases they act de Borodino and Ligny, especially wh as in both these cases, by infant. We cannot enter here into the which cavalry may be called upo on outpost, patrolling, and escortin A few words on the general tacti however, may find a place. ing more and more become the battles, the manœuvres of the mo necessarily more or less subordins the former. And as modern tactic upon the admixture and mutual a 8 arms, it follows that for at less the cavalry, all independent activ

y way independently. The cavalry of the mass of the cavalry with the army, he same subordinate position toward le infantry of the army as the divisional does toward the infantry division to t belongs. Accordingly, the reserve will be held in hand till a favorable for a great blow offers itself, either to rand infantry or cavalry attack of the or to execute a charge of its own of a nature. From what has been stated will be evident that the proper use of lry of reserve is generally during the lats of a great battle; but then it may be a has been decisive. Such immense suc-Seydlitz obtained with his horse are comout of the question now; but still, most tles of modern times have been very manfluenced by the part cavalry has played

But the great importance of cavalry arsuit. Infantry supported by artillery t despair against cavalry so long as it s its order and steadiness; but once no matter by what cause, it is a prey

ed men that are launched against 10 is no running away from the horses; difficult ground, good horsemen can eir way; and an energetic pursuit of army by cavalry is always the best and r way to secure the full fruits of the

Thus, whatever supremacy in battles to been gained by infantry, cavalry still an indispensable arm, and will always so; and now, as heretofore, no army r the lists with a fair chance of success has a cavalry that can both ride and

AN, the southernmost county of the of Ulster, Ireland; area, 747 sq. m.; 1851, 174,071. The soil is wet and but with drainage it is rendered pro-The mountainous districts, which inconsiderable part of the county, are Coal, iron, lead, and copper have been ed; marl, fuller's earth, potter's and brick a always plentiful. The linen trade is on in Cavan, but not at present to any xtent. Cavan was anciently called Brenny), and was part of the territory of e, the Irish chief, the seduction of rife by Dermot MacMurrough was the e cause of the English invasion. It made shire-ground toward the close of century. The county was divided into mong the native possessors, 5 baronies w the lot of the O'Reilly family. s having forfeited their possessions by at the beginning of the 17th century, everted to the British crown. It is now into 8 baronies, and returns 2 members British parliament.—The county town, led Cavan, is on the Dublin and Gallway, 851 m. from the former city. 1851, 8,254, beside several thousand in · houses and other public establishments. nd quarter sessions, annual fairs, and a

weekly market, are held in the town. It contains a fine parish church, Presbyterian and Methodist meeting houses, a fever hospital, an infirmary, a royal endowed school, a county gaol and court-house, barracks, and a public pleasure-ground, bequeathed to the town by the late Lady Fern-

CAVANAS, or Cabanas, a port of Cuba, on the N. W. coast of the island, 88 m. S. W. of Havana; lat. 28° b' N., long. 82° 55' W. It has a fine deep bay, capable of containing 100 vessels, and is defended by a battery of 5 guns, having in its centre a martello tower, with 1 gun. The entrance to the bay lies between 2 extensive reefs. Some of the most celebrated specimens of Havana cigars bear the name of Cabanas.

CAVANILLES, ANTONIO José, a Spanish naturalist, born at Valencia, Jan. 16, 1746, died in Madrid, May, 1804. Educated among the Jesuits, and having embraced the ecclesiastical profession, he was chosen tutor to the sons of the duke del Infantado, Spanish ambassador in France, and accompanied them to Paris, where he remained for 12 years. He became acquainted with the botanist Jussieu, and devoting his attention to the study of botany, he officiated after his return to Madrid, from 1801 to the time of his death, as keeper of the royal gardens. His works are numerous; among them are "Ele-mentary Principles of Botany;" a "Botanical Dis-sertation on the Sida, and other Plants having an affinity with it," 2 vols. 4to. with plates; and a "History of the Kingdom of Valencia," 2 vols.

CAVATINA, in music, a short air without a repeat, often inserted in recitative for the pur-

pose of affording an effective relief.

CAVE, EDWARD, an English printer and bookseller, born at Newton, Warwickshire, Feb. 29, 1691, died Jan. 10, 1754. He is chiefly known as the founder of the "Gentleman's Magazine," and as the friend of Dr. Johnson, who attended his death-bed, and wrote his life. The shop in which he did business still stands at St. John's gate, Clerkenwell, London.—WILLIAM, an English scholar and divine, born at Pickwell, Leicestershire, Dec. 80, 1687, died at Windsor in Aug. 1718. He was educated for the ministry at Cambridge, and subsequently held several cures. He was chaplain to Charles II., who made him canon of Windsor. Having selected as his residence the quiet vicarage of Isleworth, Middlesex, he devoted his life to researches into the history of the church. He produced a great number of works, the most important of which are his "Lives of the Fathers" (*Ecclesiastics*), "Lives of the Apostles," and "Primitive Christianity." His style is concise, simple, and easy, and his sentiments so liberal that he has been accused of Socinianism. A monument in Islington church marks his burial place.

CAVE, or CAVERN, a hollow place under ground, generally with an opening on the surface, or in the face of a rock or hill. The former term is sometimes applied to an artificial

uny in some countries. THE SHCIGHT city of Petra consists of artificial caves cut in the sandstone rock, which might have served as dwellings. We read in Genesis xix. that Lot "dwelt in a cave, he and his two daughters." The practice of burying the dead in caves seems to have been the origin of catacombs. Nearly all the great caves of the world are in limestone rocks, of comparatively recent date. In the primary formations, these rocks being of limited extent, the caves, though numerous, are small. They are produced by the action of the water, which, running in little streams through the strata, and carrying with it carbonic acid gas (by which limestone is rendered soluble), particles of the rock are taken up and removed. Thus the rock is hollowed out more rapidly than others of a softer nature are excavated by any mechanical action; and the work goes silently and steadily on through long geological periods, until subterranean passages of wonderful beauty and extent are formed. In Sweden and Norway the granite presents caves of extraordinary size; that of Marienstadt, which has been only partially explored, is most prominent. In the neighborhood of Quito caverns are found in

modern porphyry, and in the of Fra e in

his steps. in connection was a served, and has attractou th tific men. A blast of cold air the opening, so strong to extinguish a candle. without is higher than current of air sets out, mu war the case the current is revers prevailing current is outv ing to air carried into the and set free as this course. On this pris called the centilateu. H for furnishing **CR** 1 poses. (See Brow Murchison, n in Russia, mer warm a free which is destitute of ice in a tially filled with it during th erns in various parts of the wo which is found incrusted is detached with picks. Kentucky; this caves a large no the United

: all were of extinct species. It is supthat the Kirkdale cave was for many a den inhabited by hyenas, some great on at last destroying the whole race. bones have sometimes been found in receptacles, but this may be explained by wmmon practice of mankind in all ages to v their dead in such repositories, and by that very many of these caverns, as stated above, have been occupied as by ancient and barbarous nations known cave in the world is the cave in Kentucky. It is situated in n co., near Green river, 180 m. S.S. icaington, on the road to Nashville. Acto the statements of explorers, it has penetrated to the distance of 10 m., but are probably exaggerated, as the windof the cave are so tortuous, and the proof travellers so much obstructed, and neily very slow, that they may be easily deed in this respect. Stalactites of gigantic and fantastic form are seen here, though e so brilliant and beautiful as adorn the inors of many other caves. Nitre abounds. iver navigable by boats affords a novel

for exploring these subterranean reFew forms of life are found within
e. Bats and rats are abundant, and
fish only have been observed: one of these
e eyeless fish; the other, though with eyes, is
ely blind. After the Mammoth cave, that
worthy of notice in the United States, is
's cave, named for its discoverer. It is situin the co. of Augusta, near Port Republic,
N. E. of Staunton, Va. Though inferior in
to the Mammoth cave, being but 2,500 feet
ngth, its rare beauty has given to it an almost
che distance of \(\frac{1}{2} \) m., adorned with their
tetalectives repaid to equal the enchant-

t stalactites, are said to equal the enchantmaces described in eastern story. A cave
recently been discovered in Marion co.,
which promises to rival all others in
it and beauty. It is known by the name of
Big Saltpetre cave. Large chambers and
galleries succeed each other; their height
ing from 100 to 30 feet. The dropping water
ormed the most beautiful stalactites, and the

is decorated with groups of spar in a my of figures. A number of caves have described in New York. The most inting of these is Ball's cave at Schoharie. as been explored about \$\frac{3}{2}\$ of a mile. States and stalagmites have been found in it of purest white. It contains 2 lakes, the sur-of the one 10 feet above the level of the

NVEAT (Lat. cavere, to beware), a formal to or caution given by a party in interest court, judge, or public officer against the remance of certain acts, such as permitting ill to be proved, granting letters of adation, or patents for inventions, or for Its object and effect are to stay the

proceedings, in order to allow an interested party an opportunity to contest the application about to be made.

CAVEDONE, Jacoro, an Italian painter, born in Sassuolo, in the duchy of Modena, in 1577, died in Bologna in 1660. He was a pupil of Annibale Carracci. His best works are the "St. Alo," in the church of the Mendicanti at Bologna, the "Adoration of the Magi," the "Four Doctors," and the "Last Supper." Out of Italy he is frequently mistaken for Annibale Carracci.

CAVENDISH, HENRY, an English philosopher, born at Nice, Oct. 10, 1781 (during a visit of his mother, Lady Charles Cavendish), died in London, Feb. 24, 1810. He was a gentleman of great wealth, and a man of high attainments in chemistry and in general physics. He was the discoverer of the composition of water and of nitric acid, and proved that the electric spark will generate nitric acid from common air. He measured the density of the earth by direct comparison with balls of lead, and improved the modes of dividing astronomical instruments. His highest glory consists in his being the first chemical experimenter and discoverer in many important branches of that science. His writings may be all found in the "Philosophical Transactions" for 1766, '67, '71, '73, '76, '77, '88, '84, '85, '86, '88, '90, '92, '98, and 1809. Distinguished in science for the accursey of his experiments, the largeness of his views, and the brilliancy of his discoveries, he was no less distinguished in private life for the excellence of his character, the regularity and simplicity of his habits, and his liberality toward other men of science.

CAVENDISH, or Candish, Thomas, an English navigator of the 16th century. He was the son of a gentleman of good estate, residing at Trimley St. Martin in Suffolk, inherited his father's property, but becoming light in purse by living at court, he engaged in a predatory excursion against the Spanish American colonies, fitting out 8 vessels respectively of 120, 60, and 40 tons. This expedition started July 21, 1586, and entered the straits of Magellan Jan. 6, 1587. They were 38 days in clearing the straits, spending some time in examining the coast. On the Pacific ocean shore they burnt Payta, Acapulco, and other towns, and finally captured the Spanish galleon, the St. Anna, a vessel of 700 tons, loaded with a valuable cargo, and 122,000 Spanish dollars. Satisfied with this golden success, Cavendish started from California, crossed the Pacific to the Ladrone islands, through the Indian archipelago and straits of Java, around the cape of Good Hope, reaching England Sept. 9, 1588. In Ang. 1591 he started again, but he experienced bad weather and sickness, his crew grew mutinous, and he died either on the coast of South America, or on his way home, in 1592.

South America, or on his way home, in 1898.

CAVERY, or CAUVERY (and Chalevie), a river of southern India, rises in the British district of Coorg, among the Coorg hills, near the coast of

WITH THE RESULTED STREET DRICK OIL THE HERMAN OF THE

crew. CAVERYPAUK, or CAUVERYPAUK, a town of British India, in the presidency of Madras, district of N. Arcot, on the road from Madras to Arcot, lat. 12° 54′ N., long. 79° 88′ E. A victory was gained here by the British over the French and their allies in 1754. The town is a

poor and meanly built place, but contains a tank 8 m. long and 8 m. broad, which is perhaps the finest work constructed for irrigation throughout southern India.

CAVI, a picturesque Italian town, on the slopes of the Monte di Mentorella, in the Pontifical States, 8 m. from Palestrina; pop. about

2,000. It was built by the Colonnas, who held

it as early as the 11th century, and is memorable for a treaty of peace signed here in 1557 between the duke of Alva and the Caraffeschi. On the ancient road, which was probably the line of communication between Palestrina and Anagni, is the battle-field on which C. Aquilius

Tuscus defeated the Hernici, 487 B. C. CAVIANA, an island of Brazil, 85 m. long and 20 m. wide. It lies in the N. mouth of the Amazon, under the equator; is level, fertile, and well stocked with cattle. The small town

tions a place of great m. distant from the c it is connected by \mathbf{A} low tongue of \mathbf{b} into the bay of Manila, Cavité from every wind anchorage is good except during the c when the destructive 1831, during one of the a Spanish sloop of war of 600 adriven from its ancho

ramparts of the town. town, outside of the ments, does not exceed town, or Cavité el V the arsenal, and CAVOLINI, F. Italian naturalist, pro university of Naple died there as a lawyer, out

istry, and devoteu rine polypi, in v He lost his prop 1806, but was re

the founders of and contributors to Il Risor**gimento**, a journal of liberal politics. Count Cavour superintended the politico-economical department of this paper, and gave it a strong biss in favor of free trade. He entered the Sardinian chamber of deputies in 1849, and took his seat among the members of the moderate opposition. On the death of Santa Rosa, minister of agriculture and commerce, these portfolios were conferred upon Count Cavour, to which in 1851 was added the department of the finances. In 1852 he succeeded the marquis d'Azeglio as president of the council, an office which he has filled ever since, with the exception of a short period of retirement in 1855. He obtained a European reputation by the course he took in opposing the pope and the ultramontanes at home, and in joining France, Great Britain, and Turkey against Russia. The manifesto of Sardinia on this occasion was drawn up and signed by Count Cavour (Jan. 10, 1855). In conjunction with the marquis Villamarina, he represented Sardinia in the Peace conferences held at Paris in the spring of 1856. During the sittings of this conference, he took occasion to protest against the continued Occupation of the pontifical states by foreign troops, and to represent the necessity of inducing the king of Naples to moderate his system of government. Not less famous did he become from the part he took in carrying through the Sardinian parliament the measure for suppressing convents and monasteries, and secularizing their estates, which drew down upon him, and all who participated in the enactment and execution of this statute, the major excommunication of the pope, and the hostility of a large portion of the Sardinian clergy and their supporters in parliament. Despite the warm opposition of many powerful interests which his reforming tendencies have offended, the ministry of Count Cavour has been sustained by the masses of the people. After the attempt upon the life of the emperor of the French (Jan. 14, 1858), Count Cavour acceded to the requests of the French minister of foreign affairs, and proposed and carried through the legislature an act in reference to political refugees and conspirators against the life of foreign sovereigns, which was denounced by the democratic members of the Sardinian chamber of deputies. The act conceded a special jury of 200, to be designated by the mayor and municipal council of the town in which the court of appeal is established, for the trial of conspirators against foreign potentates. On the various questions which have arisen between the contracting parties concerning the construction of the European treaty of peace of 1856, and concerning the settlement of the Danubian principalities, the ministry of Count Cayour have supported French views, and have uniformly set themselves in opposition to the policy of Austria. The admirers of Count Cavour claim that he is the first of living Ital-

ian statesmen, and that to him more than to any other individual are Sardinia and Italy independent of this paper, and gave it a strong bias in favor of free trade. He entered the Sardinian chamber of deputies in 1849, and took his seat among the members of the moderate opposition. On the death of Santa Rosa, mainister of agriculture and commerce, these portfolios were conferred upon Count Cavour,

CAVY, a mammal of the order rodentia, family hystricides, sub-family caviina (Water-house), and genera dolichotis and cavia. This sub-family is exclusively South American; the molar teeth are # 4, without roots, those of the upper jaw converging and nearly meeting in front, incisors short, 4 toes on the fore feet, and only 3 on the hind, and (what is exceptional in rodents) without clavicles; they do not use the fore feet to convey food to the mouth. The cavies have been generally associated with the agoutis, and classed under the section subungulata of Illiger, erroneously in the opinion of Mr. Waterhouse, though the two groups approach each other in many respects, as in having the same number of toes, and in being almost or entirely destitute of a tail. In some members of the sub-family, and probably in all, the fauces, or entrance to the throat, form a funnel-shaped cavity, opening backward into the pharynx by a small aperture capable of admitting only very finely chewed food; by the action of the muscles this conical cavity is made to pass over the epiglottis, preventing the entrance of the food into the windpipe; the stomach is simple, but the cocum is large and complicated. The molar teeth of the upper jaw have the entering fold of enamel on the inner side, while in the lower it is on the outer side; the palatic portion of the skull in front of them is much contracted, and between them triangular, the posterior emargination being very deep, and exposing the anterior sphenoid bone; in the lower jaw a well-marked ridge extends along the outer side from the 1st molar, at first horizontally backward, but afterward curving upward to the condyloid portion, distinguishing them from all other rodents; the condyle is but little elevated above the crowns of the molars, and the coronoid process is extremely small, in this and other particulars resembling the tailless hares (lagomys). The genus dolichotis (Desm.) is characterized by long limbs; ears half as long as the head, pointed, broad at the base; tail very short, and curved upward; metatarsus clothed with hairs anteriorly, posteriorly with the heel naked; molars small, the 8 front upper and the 8 posterior lower divided by folds of enamel into 2 equal lobes, the last upper and the front lower being 8-lobed. The long legs, large ears, and distinct tail distinguish this from the genus cavia, of which the Guinea pig is a well-known example. The cavies approach the hares in their comparatively short incisor

те пяв всеп Кепециий пивtaken by travellers for a hare, which it resemdistinguished from all bles in its legs, ears, and tail; the head is large, the shortness of the l terminating in a blunt muzzle clothed with length of the tarsi. hairs; the upper lip is slightly notched; the mustaches are very long and black. The fossil cavies have be strata of Br : Land genus cavia (Klein) is characterized by short limbs and ears, by feet naked beneath, by mospecies from tue of CAWDOR, or wall · lars nearly of equal size, each with 2 principal mostly in the cou section in Invernes, pop. 1 lobes. The genus presents 2 modifications of the molars: in one, the lobes are nearly equal, noted for the remains of and the hinder lobe of the upper series has no feudal fortress of the tradition asserts that dered by Macbeth, distinct indenting fold of enamel; for this F. Cuvier has instituted the genus cerodon, which Waterhouse retains as a sub-genus; in the ed by Shakerpeare. other (containing the Guinea pig), the hinder place in the 11th lobe is the larger, and in the upper series has a deep indenting fold of enamel on the concealed in the bellion. CAWNPORE, CAWNPO outer side, and the corresponding half of district of British India, of the N. W. provinces, b the lower molar with a deep fold on the inner side. The following species belong to the subgenus cerodon; those of cavia proper will be described under Guinea Pig. The rock cavy Ganges, which sell by the Jumpa, w (C. rupestris, Pr. Max.) inhabits the rocky discund. Area, 2,88, .q. tricts of the interior of Brazil, in the higher 556, of whom over 1. parts of the river courses. The na re short, The chief produ

b ey.

7 DI I;

obtuse, and projecting from large

plation of 108,796, of whom 49,975 are distributed among the cantonments. It is poorly built, and has but one mosque of any pretension to elegance, but since its selection as a station for troops in 1777 it has acquired great commercial as well as military importance. It manufactures saddlery, harness, gloves, and jewelry; its shops are well supplied, its wharves are crowded with vessels, and its streets present a bustling and animated appearance. The race-course, the fashionable drive and promenade, and the best buildings, among which are an elegant theatre, handsome assembly rooms, and club rooms, are all within the cantonments, which stretch for 5 or 6 miles up the river, and are about 1 mile wide. Here are the barracks and many hundred bungalows, the latter built on the high banks of the Ganges, embosomed in fragrant groves and gardens, surrounded with every variety of eastern fruit, and often luxuriously furnished. The lines have accommodations for about 7,000 troops. The civilians, whose offices are in the native town, usually reside in the suburbs. While the flames of rebellion were raging throughout Bengal in 1857, the military force at Cawnpore, commanded by Gen. Sir Hugh Wheeler, consisted of 3,800 men, of whom about 200 were Europeans. In June, symptoms of revolt induced Gen. Wheeler to throw up an intrenchment on the parade ground, enclosing 2 barrack hospitals and a few other buildings, into which he withdrew with 5 or 6 guns and about 900 Europeans, of whom # were women, children, and other non-combatants. On the 5th the expected rising took place. The native regiments marched off, taking with them horses, arms, and ammunition, and setting fire to the bungalows on their way. They placed themselves under the leadership of the rajah of Bittoor, commonly known as the Nena Sahib, seized 35 boat loads of shot and shell on the canal, and the next day appeared before the intrenchment. The siege lasted until the 27th, when the Europeans, now reduced to less than half their original number, suffering from pestilence and famine, their ammunition exhausted, and their weak ramparts half demolished, surrendered on promise of a safe passage to Allahabad. But no sooner had they embarked on the Ganges than they were fired upon from a masked battery. Many were killed in the boats; 3 or 4 made their escape, and the rest were captured and brought to land. The men were then put to death; the women and children were kept alive until July 15, when the Nena, hearing of Gen. Havelock's rapid advance toward Cawnpore, caused them to be massacred, and had their bodies thrown into a well. After defeating, in 3 obstinate battles, a strong native force sent out to oppose his march, Havelock entered the city July 17, while the Nena retreated to Bittoor. In November a monument to the memory of the victims of the Cawnpore massacre was erected on the spot by a detachment of the 32d (British) regiment.

CAWOOR, or CAWUR, a Malay town and district on the S. W. coast of the island of Sumatra. The town or village, situated at the mouth of an inconsiderable stream, in lat. 5° 5' N., is a place of no note; it is composed of a few bamboo constructed dwellings, and has about 1,500 inhabitants. The district in the vicinity of the town is remarkable for its extensive forests of gutta percha and gutta taban trees, and for the abundance of tigers which infest these forests. Mr. Engel, a Dutch agent, for many years stationed at different points on the coast of the Bencoolen residency, in which this district is included, reported in 1853 that he traversed, in company with an armed body of Malays, different portions of this district, passing through one stretch of forest 11 miles in length, composed wholly of the 2 gum trees mentioned. He was of opinion that gutta percha could be extracted and prepared for shipment at Cawoor at a cost of 12 Dutch doits per pound, or 21 cents U.S. currency. At the same time he records many desperate encounters with tigers; the encampment of the party was frequently attacked: the fires by which it was surrounded were overleaped by the terrible beasts, who sprang upon tents or the roofs of huts; and though many were shot and speared, several also carried off a human prey. The town of Cawoor is oftentimes thrown into a state of general alarm by a descent of tigers into its streets, even in daylight. The superstitious notions of the Malays prevent them from attempting any destruction of tigers, other than what may be effected in resisting an immediate attack; and unless a civilized government devises some efficient plan for the extermination of these powerful and ferocious beasts, the many rich products of the S. W. coast of Sumatra must continue to lie waste in its forests. Pepper and coffee have been advantageously cultivated in portions of this district.

CAXAMARCA, or Cajamarca, one of the 65 provinces into which the 11 departments of Peru are subdivided, in the valley of the upper Maranon, or Amazon; pop. of the province about 50,000, and of Caxamarca, its capital, 7,000. The city stands on the E. declivity of the W. Andes in a rich silver mining district, 75 m. from Truxillo. It contains several handsome churches and flourishing manufactories of woollens and The inhabitants are considered the cutlery. best workmen in silver and iron in Peru. An extensive trade between the inland provinces and Lambeyeque and Truxillo is carried on Woollen fabrics form the through this town. chief exports, and European manufactures, sugar, brandy, wine, iron, steel, and other articles are imported in return. In the vicinity are the baths of the Incas, and a volcanic lake, into which, according to tradition, were cast the throne and regalia of the Peruvian monarchs. the last of whom, Atahuallpa, perished here by the hands of Pizarro.

CAXATAMBO, or CAJATAMBO, a town of Peru, and capital of a province of the same

When the Engand its geographical pos it better, to make a new one. lish princess, Margaret of York, married Charles, duke of Burgundy, she took Caxton into her household. While in her service, he translated tion render it one of tue mountains of the world. CAYCOS. See CAICOS. CAYENNE, the name of and a town in French Gu from the French into English Raoul le Fèvre's Recueil des histoires de Troye, a work which he commenced at Bruges in 1468, and finished at The island is separated fin the Cologne in 1471. Having been long absent the rivers Cayenne and Oyac, and from his native country, he needed the assistwhich both these rivers are united. ance of his mistress to correct his English. in circuit, and is simply an a over the level of the sea. From the prologues and epilogues of this work it appears that he was acquainted with the art its name, it con as some of printing, and from the character of his types hamlets or of log cabin it is evident that he had learned the art in the Low Countries. The first 3 printed works of Caxton were the original of Raoul's "History," Af ulation of 2,110,1 is a tolerably large neighboring hills on **H10** 1 the oration of John Russell on Charles, duke the various trees of Cayeman tioned the caoutchouc, vered there by Frisman the capital of French Gr of Burgundy, being created a knight of the garter, and the translation of Raoul, the last completed in 1471. There is no certain evipenal settlement, is situated extremity of the island, and a dence of the exact period of Caxton's return to England; the usual supposition dates it in 1474; the river. Pop. above 4 victs. Since L it is beyond doubt, however, that in 1477 he had taken up his quarters in the vicinity of Westminster Abbey, London. His printing office many politi

Cayenne anu

was in the Almonry, as appears from an old

ie town. The harbor, the entrance protected by a fort commanding the is shallow, but otherwise good and ed for merchantmen of moderate size. 2 quays for loading and unloading. ead at the mouth of the river, though he best on the coast. The average mports and exports during 5 years to 1855, was collectively \$900,000 per n 1856 the value of the imports was und of the exports \$820,000, total , showing an increase of \$200,000 preceding years. The chief exports the famous Cayenne pepper, cloves, lasses and taffa, coffee, cotton, and is imports, of wines, liquors, pot-, machines, jewelry, cheese, but-ied meat, &c. The following table list of the penal colonies of Cayof their population in Jan. 1857:

	Free persons.	Transported,
Salut	:. 214	1,176
Mère		119
III (Montagne d'Arg	ioni) 102	145
rge's		150
.rie		676
rustin		876
lippe	21	25
dien	80	274
)TS	10	416
	789	2 257

ng of 1857, an accession of 560 transreceived, bringing the total of transo about 4,000. A steamer and a galley nonthly between Cayenne and the ed places of imprisonment. The island called to distinguish it from the adjaow entirely deserted, island Le Père, l as the least unhealthy place on the oast; nevertheless, the climate kills a ber of persons; among the recent vic-2 missionaries, Father Herviant, who zenne after a residence of 6 months at une 12, 1853, and Father Boulougne, n the island itself, Sept. 26, 1856. The ly climate is that of the island of St. here a new penal colony was settled blacks in April, 1853. The majority victs who have since been sent there es from Martinique and Guadeloupe. hite convicts who arrived there in , nearly half of them died before ral voluntarily starved themselves to ing themselves, and a third drowned The convicts are composed of thieves

forgers, incendiaries, and murdercolony most fatal to health on the
s Silver Hill, or Montagne d'Argent,
anth of the Oyapok, 25 leagues S. E.
ne. Since the establishment of this
annual average of mortality was 40
the neighboring marshes, the deposiver, a rainy season of 8 or 9 months,
ed with extreme tropical heat, all
to produce here the most deadly
-The most recently founded colonies
sugustin and Ste. Marie, in the early
355, and at a subsequent period St.

Philippe, all 3 on the right bank of the Oyapek river. The yellow fever has made terrible ravages in St. Augustin and in Ste. Marie: 1,150 persons were prostrated by the disease in 1856, and the missionaries sent thither died one after another. In 1857 appeared in Paris, Mission de Cayenne et de la Guyane Française, which is the first instalment of a more extensive work to be published, under the title, Veyages et trocaux des missionnaires de la compagnie de Jésus publiés par les pères de la même compagnie, pour servir de complément sun lettres édifiantes.

CAYENNE PEPPER, See CAPSTOUM.

CAYES, Les Cayes, or Aux Cayes, a sesport town on the S. coast of Hayti; pop. 10,000. It is one of the most prosperous towns on the island, and contains several British commercial houses. An extensive smuggling trade is carried on between it and Jamaica. In the neighborhood of the town are upward of 80 rum distilleries. Les Cayes is the centre of trade of the Heaux Vaches, which lies opposite, and of the adjacent mountains. The climate, although unhealthy, is favorable to production. Its principal articles of trade are sugar, indigo, coffee, cotton, and rum.

CAYLEY, ARTHUR, an English mathematician, born at Richmond near London, Aug. 16, 1821, was educated at Trinity college, Cambridge, where he carried off the highest honors. He is one of the editors of the "Quarterly Mathematical Journal," and has contributed many papers to scientific periodicals, home and

foreign.

OAYLEY, Siz Grozer, a skilful and publicspirited Englishman, born at Brompton, York-shire, 1778, died Dec. 15, 1857. His genius first displayed itself in the analysis of the mechanical properties of air under chemical and physical action. His papers on the subject gave rise to many experiments on the navigation of balloons at home and abroad. His experiments on the steam engine led to his invention of the air engine. His discoveries in optics were followed by the invention of an instrument for testing the purity of water by the abstraction of light. He was also the inventor of an ingenions arrangement for obtaining and applying electric power to machinery. He was one of the original promoters of the polytechnic insti-tution at London. Toward the end of the lest century he applied to his extensive estates in Yorkshire a new system of arterial drainage. He was also the father of the cottage allotment system. As a politician, he took a prominent part in the election of liberal members of parliament, and the return of Mr. Brougham was chiefly due to his sympathy with the reform bill. Upon the passing of that bill he was himself chosen as member for Searborough, but on account of his advanced age he soon retired.

CAYLUS, ARRE CLAUDE PHILIPPE DE FU-MERIE, count, a French archeologist, born in Paris, Oct. 31, 1692, died Sept. 5, 1765. He early entered the military service, and distin-

it is well known u are Joiotts and Mohammedans. Uapital, Maa large portion across the Afr caye. CAYUGA, a county of New York, a little W. from the centre of the state, bounded N. by Lake Ontario, W. by Cayuga lake, touching ritory to but the descent into time ve Skaneateles lake on the E., and traversed by the Seneca river and other smaller streams, leads to a region of re of luxuriant trees. I numerous; the most the Luviri, the Zamb which furnish abundant water power. Owasco lake, a beautiful body of water 10 m. long, lies in its centre. The county has an area of about 752 sq. m., with an undulating surface and fertile soil. Salt, gypsum, and limestone are found here in abundance. Wheat, Indian The clinte is unhe with 1 probabiy The c prv. .48 ard corn, oats, and hay are the staples. In 1855 Danas, wire sugar-cane. this county produced 868,548 bushels of corn, 221,156 of wheat, 956,636 of oats, 57,782 tons plants, and of the people of hay, and 1,957,183 lbs. of butter. There session of were 80 grist mills, 2 carpet factories, 2 cotton of the Car a few goats. I factories, 8 woollen factories, 18 tanneries, and 10 iron founderies. It contained 100 churches and 8 newspaper establishments. Pop. 58,571. territory sleep Capital, Auburn.
CAYUGA LAKE, in the W. central part of the night. The curivory, salt, and o scribed as

is allowed.

oe bev

New York, separates Cayuga from Seneca co., and extends S. into Tompkins co. It is about 88 in war, but us m. le ; and from 1 to 3½ m. wide. It is vie in all p s, but for about 6 m. fr

monopolizes the trade, and derives his nainly from his copper mines and salt arious expeditions have been set on a Portuguese since the end of the last nto the territories of the Cazembe, nformation gained of the country is rough those channels. The last Porcok on the subject appeared in Lisbon nd is entitled: O Muata Cazemb e cos aves, Chevas, Muizas, Muembas, Lune da Africa Austral.

VOVIA, a post village and township on the of the same name in Madison co., pp. in 1855, 4,495. It is the seat of the conference seminary, an institution

1 800 to 500 pupils.

LA, a Spanish town, in the province on the river Vega, on the slope of the rla; pop. in 1852, 7,388. It is well use form of an amphitheatre, on the mountain rellevant contains 2 me

ne form of an amphitheatrs, on the mountain valley, and contains 2 spares, one of which is adorned with a fine main. It is defended by 2 old castles, m of Moorish origin, and has numerous and schools, a spacious theatre, and in as many delightful gardens and highly public walks. Cazorla was a military der the Romans, and figured conspictive Moorish contests of the 18th center repeated attempts it was taken burned by the French in 1811.

TE, JACQUES, a French writer, born t Dijon, died Sept. 25, 1792. He bet known by a prose poem, Olivier, in the style of Ariosto's poems. Soon of tales, full of wit and originality ich Le diable amoureux and Le lord u, added to his fame. He was enth such facility and power of imitain one night he wrote a sequel to poem, La guerre civile de Genève, fect was the imitation that no one

ine addition to be Voltaire's own. tanding the apparent mirthfulness of sition, Cazotte, in his later years, beof the most fervent adepts of the document of the Martinism. Being a oyalist, he was arrested during the 1, and escaped death at first through ge and entreaties of his daughter, but rearrested and finally executed.

YNY, ZACHARIA BEN MOHAMMED BEN, an Arabian naturalist, born at Cazty of Persia, in the year of the Hegira D. 1212), died in 682 of the Hegira D. 1212), died in 682 of the Hegira Casa. His most important work, en"Wonders of Nature and the PecuCreation," contains an introduction, he discusses the nature and classifies ies of all beings according to the prinhe Aristotelian philosophy; a 1st part, he treats of themes like the sun, moon, cels, and genii; and a 2d part, filled rvations and speculation as to earthly ia—meteors, winds, climates, rivers, the formation of mountains the

cause of earthquakes; the description of minerals, plants, and animals; and a particular account of man in an anatomical, intellectual, and

moral point of view.

OEAN-BERMUDEZ, JUAN ACUSTIN, a Spanish archesologist, born Sept. 17, 1749, at Gijen, in Asturia, died in Madrid, Dec. 3, 1839. He devoted himself early to the study of the fine arts, into which he was initiated by Raphael Mengs. After holding a public office at Madrid, he retired to Seville, where he founded an academy of fine arts, and occupied himself with the study of their history. He was elected a member of the royal academies of history and fine arts at Madrid, and published several valuable works connected with his favorite pursuits. His most important book, entitled Sumarie de las antiquedades romanas que

hayen España, appeared posthumously in 1883. CEARA, one of the N. E. provinces of Brazil, bounded N. and N. E. by the Atlantic ocean, E. and S. E. by the province of Rio Grande do Norte, S. by Parahiba, and W. by Pianhi; area in 1858, 42,600 aq. m.; pop. 210,000—the latter estimated in 1856 at 385,800. The province sends 4 senators and 8 deputies to the Brazilian parliament. The capital is Portaleza. The climate is hot and dry; the soil sandy and barren along the coast, but more fertile toward the mountains. In the lower districts grain and manice are cultivated, and along the rivers cotton. The most fertile and populous districts are about the upper branches of the Rio Jaguaribe, the most important river of the province. The province is celebrated for its cattle, and for its fine forests. The chief exports are cotton, hides, and dyewoods. The other products are sugar, tobacco, pineapples, amethyst, alum, and a small quantity of gold. Agriculture and the rearing of cattle form the principal occupations of the inhabitants.

CEBES, a Greek philosopher of the 5th cen-

Check, a Greek pandsopher of the strictury B. C. He was one of the pupils, friends, and disciples of Socrates, and is introduced by Plato as one of the personages conversing in the dialogue, so famous in all ages under the name of "Pheedo." He was a native of Thebes, in Bosotia, and is, in addition to the splendid examples of Pindar, Epaminondas, Pelopidas, and Plutarch, an evidence against the truth of the proverb of Bosotum crasse jurares agree nature, which has assigned to the natives of that state the unenvied birthright of natural stupidity. This Theban Cebes, however, composed 3 dialogues called Hebdome or the seventh, Phrymichus, and Pinan, the tablet or picture. Of these, the last alone has come down to posterity. It is a moral sketch or picture of human life, equally pure in its Greek style and its moral teachings. The authorship of this work has been questioned by modern critics, some of whom ascribe it to a later Cebes, of Cyzicus, while the foremost Greek scholars all maintain that it was the production of Cebes, the learned Theban. No work of antiquity has had a wider circulation then the

"Picture" of Cebes. It has been translated into almost all the modern languages, even into Arabic. The best editions are those of Schweighäuser (Strasbourg, 1806), and of Coraes, in his edition of Epictetus (Paris, 1826).

CEBU, or Zebu, the name of a province, island, and town of the Philippine archipelago. The island lies between lat. 10° 80' and 11° N., 87 m. long and 16 m. broad; area 1,211 sq. m.; pop. 272,000, and 220 to the sq. m. island was the first land of the Philippines with which Magellan held intercourse; he landed upon it April 7, 1521; and it is noted in the archipelage as being the first upon which Christianity was preached. However, the rapid conversion which then took place, the bap-tism of the king and queen of Cebu and all their court, was mainly effected by the per-suasions and threats of the zealous circumnavigator, and after his violent death a speedy and general apostasy ensued. It was not till the arrival of Don Miguel de Legaspi, the first Spanish governor of the Philippines, 44 years after the death of Magellan, that the thorough conversion of the inhabitants began. eral adoption of Christianity by the people of this considerable island, and their hearty abandonment of a horribly degrading idolatrous worship, is attributed mainly to the zeal and energy of Andrea de Urdaneta, a humble priest of Seville, who ranks with Xavier as an indefatigable, fearless, and pure-hearted missionary of the cross, and who accomplished far more than Legaspi and his army in effecting the conquest of the Philippines. The progress of the island in population and agricultural development has been rapid; its population in 1735 was only 28,320, in 1799 it had more than trebled the previous census, and now there are in Cebu 12 times the number of inhabitants that there were a century and a half ago. The surface of the island is very uneven, and the soil is thin and stony, and except in a few fertile valleys generally unfavorable to cultivation; but the docile and industrious Cebuans produce an ample subsistence for themselves of rice and other vegetable productions, and export some tobacco, hemp, and cocoa. The climate is very healthy, and instances of natives exceeding the age of 100 years are quite common. An enumeration of 32 Cebuan centenarians is given in Spanish statistical reports, one of whom had attained to the advanced age of 137 years. A low range of mountains forms a water-shed the whole length of the island; the streams that descend from the slopes on either side are all too inconsiderable in depth and too full of shoals to be available for any purposes of navigation; but gold has recently been found in large quantities in all these streams, and the mountains are said to be rich in fossil coal. Exports of both these minerals are beginning to increase the importance of the commercial port of the same name, situated on the W. coast, in lat. 10° 18' N., and opposite to the small island of Mactan, which is noted as the place where Magellan was

slain. The population of the town is 7,000. It is the seat of a bishopric, and civil and military administration of the ince, which includes, beside the the neighboring islands, Bohol, (Mino, Panglao, Fuego, Polo, Dama, and considerable islets. The population of the ince in 1850 was 889,078, of which near third are on the small island of Bobol. Th op of Cebu has jurisdiction over 13 of provinces of the Spanish Philippines. T vent Christian character implanted by (: among the first converts of Cebu has b served by their descendants, and gi ecclesiastical establishment a maracu (tion in the archipelago. The people are of the Bisaya nation, and there are no: or wild races in the province. At the descendants of Europeans and men, are the chief merchants of the town although they are the most opulent inlayet are regarded unfavorably by a pure race, as well as Europeans, and pelled to occupy a quarter of the uthemselves. The prejudice against mixe is probably stronger in the Philippines any other portion of the eastern h

CECIL, a N. E. county of about 300 sq. m., bordering our and Delaware, and situated at the Chesapeake bay, which forms its S. dary. Pop. in 1850, 18,939, of whom 8 slaves. Its W. border is washed by the hanna, and Sassafras river bounds it of The surface is slightly uneven, and fertile and carefully improved. The tions in 1850 were 410,060 bushels 168,112 of wheat, 208,380 of oats, tons of hay. Butter, cattle, and swims other principal articles of export. In number of factories, mills, furnaces. Port Deposit are immense granite quar the country also contains gneiss, sla chrome, and sulphate of magnesia. It sected by several railroads leading fro delphia to Baltimore. Organized capital, Elkton.

CECIL, ROBERT, earl of Salisbury, as statesman, son of Lord Burleigh, by his 2d wife, born about the middle 16th century, died at Marlborough, 1612. He was of weakly constitut deformed in person, but gifted with acuteness and energy. On his election liament as member for Westminster, ties attracted the notice of Queen I who attached him to the French subsequently appointed him assist of state. The earl of Essex wind the Queen's favorite. His into the Cecils (father and son) coun into collision; consequently a rivary between them, which continued, opectelly, until Essex perished on the best 1590 Secretary Walsingham died. I manded the office for a nomines of a

while Burleigh requested it for his son Robert. The queen, unwilling to offend her favorite, left the appointment open, and it was not till 1596 that Cecil was installed as principal secretary of state. While Essex was absent on the 2d Spanish expedition, Cecil contrived to procare for himself the chancellorship of the duchy of Lancaster, which the earl had requested for friend. That quarrel was, however, made up, and Cecil, being sent to France, much Henry IV. and the Spaniards, deemed it an effectual way of tying his rival's hands to confide the secretaryship to him during his own Deence. Essex discharged the trust honorably. Cecil's first act on his return was to thwart Resex in his attempt to obtain the deputyship of Ireland for his friend Sir George Carew, an incident which brought about the celebrated Quarrel in which Elizabeth boxed her favorite's cars and invited him to "go to the devil." Es-ex's fall was rapid, and Secretary Cecil was on relieved from his rivalry. He is accused of having in like manner sacrificed Sir Walter Raleigh, while professing to be his friend. Cautiously, but surely, he supplanted the influ-Since of all others around the throne, and cened the whole power of the court in himself. On the death of his father he was made premier. Elizabeth placed every confidence in his administration. He was at all times ready, in appearance, to sacrifice his own views to the divine judgment of his sovereign." Yet in reality he endeavored, with success, both in Elizabeth's reign and her successor's, to restrain the power of the crown. Having secretly favored the interests of James I., he was rewarded by that sovereign, on his accession, by being continued in office, and by being created, in 1603, baron of Essenden; in 1604, Viscount Cranbourn; and in 1605, earl of Salisbury. In 1608 he succeeded Dorset as lord high treasurer, notwithstanding the exertions of his new rival, but former friend, Henry Howard, earl of Northampton, to obtain the office. When the gunpowder plot was found to be really no fiction, he entered actively into the detection of the conspirators. A work of his is extant, entitled "A Treatise against Papists." James had the highest opinion of his sagacity in discovering plots, and called him on that account by the familiar appellation of "my little beagle." He could not be brought, however, to assent to James's project for the incor-poration of the 2 kingdoms. This backwardness caused the suspicious monarch to fear that he was at heart a Puritan. In all other matters the king followed his lead, asking nothing in return but money to carry on his extravagant Thus, the whole cares of the expenditure. government were thrown on his shoulders. James had no order in his expenditure. The ordinary revenues being insufficient to meet his wants, imposts were laid on articles of com-merce by proclamation. The country denied the constitutionality of this proceeding, but the

court of exchequer decided in favor of the king. Cecil interposed between the king and the peo-ple. He asked, in conference of the 2 houses of parliament, that an immediate subsidy should be voted to liquidate the royal debt, and that an addition of £200,000 be made to the annual income, to prevent the recurrence of a similar exercise of the king's prerogative. Parliament retorted on the king by a demand for numerous reforms. After protracted conferences, both houses adjourned without granting the required supplies. The failure of his proposition was a source of bitter mortification to the treasurer. His health sunk under a complication of disorders. Having tried the mineral waters of Bath without benefit, he set out for London, but died on the way. Cecil was a man of consummate skill, sagacious and honest in administration, far-seeing, fertile in expedients, and unscrupulous in using them. His administration imparted to the last days of Elizabeth the brightness that Burleigh's talents shed on the earlier part of her reign. That the opening of James's administration was less brilliant than the preceding was owing less to the minister than to the pusillanimity of his master. Lord Hailes published "Secret Correspondence of Sir Robert Cecil with James VI. of Scotland," 12mo.

CECIL, WILLIAM. See BURLEIGH, LORD.

CECILIA, SAINT, a saint of the Roman Catholic church, whose anniversary is celebrated Nov. 22. She was a Roman lady of high descent, born about the middle of the 2d or the commencement of the 8d century. Compelled by her parents to marry Valerian, a noble youth of Rome, although she had at an early age made a vow to consecrate her life to religion, St. Cecilia was eventually doomed to suffer martyrdom; and her husband, her brother-in-law, and another Roman, whom she is believed to have converted, were supposed to have met with the same fate. St. Cecilia is the chosen patroness of musicians, and from her skill in singing, is especially regarded as the patroness of sacred music. Several churches were built in her honor at Rome. Beautiful pictures of the saint were executed by Raphael and other celebrated painters, and Father De Braillon of the Ora-toire published in 1668 a work entitled, La &pulture admirable de Sainte Cécile dans son église de Rome.

CECROPS, first king of Attica, about 1550 B. C., is represented in the ancient legends as the civilizer of that country. He founded Cocropia, which at a later period formed the Acropolis of Athens, and several other places; divided Attica into 12 communities; taught its inhabitants morality and manners, marriage, and the worship of the gods; abolished bloody sacrifices, and introduced agriculture, navigation, shipbuilding, and the culture of the olive. According to some, he was of Pelasgian origin, while others say he was the leader of an Egyptian colony from Sais. He reigned 50 years. His merits were commemorated by a monument-in

enough for the roof of a single church. The cedars of Lebanon have now dwindled to a few groves, the principal of which is a thick forest containing about 30 very large trees, 50 of middling size, and 300 smaller and young ones. It occupies a natural amphitheatre at the foot of the wildest of the gorges of Lebanon, and is regarded by the people as sacred. The largest of the trees have a diameter of 9 feet. This cedar is now extensively cultivated as an ornamental tree in Europe and America one or two specimens of it giving variety and force to a dull front of round-headed trees.—The cedar of Goa is found wild in parts of India and in Japan, and has been naturalized in Portugal around Cintra. It is the handsomest tree of the genus cupressus, and distinguished by its abundance of long dichotomous pendent branchlets. - The Indian cedar is a large tree found wild on the mountains of Nepaul and Thibet, at a height of about 10,000 feet above the sea. Its timber possesses the qualities attributed by the ancients to the cedar of Lebanon, being compact, resinous, and fragrant. It is much used for building in India, has been introduced into England as an ornamental tree, and has been successfully

57' to 32° 24' S., and nearly along of 19° E. of 19° E. They are of primitive with peaks from 1,600 to 5,000 fe level of the sea, covered with gi trees. At heights of from 800 to above the valley are found man caves with well-executed drawings An ash-colored quartzoee sandsto nates in the higher parts, and ma the lower. The valleys between very fertile. CEDAR SPRINGS, a post ville tanburg dist., S. C., is an old wa and the seat of a state deaf and di a prosperous and well-conducted originally established by the Rev. N CEFALU (anc. Cephalodis), a : port town, at the foot of a rock, on of the island of Sicily, capital of a d same name (which is divided into in the province of Palermo, and 8! that city; pop. 8,940. The town: a bishopric, and contains a fine c several other churches. The remain nician edifice, a castle built by tl and several marble quarries, are in

8 chapels, several schools, a theatre, handsome public buildings.

m) WSKY, FRANTISEK LADISLAW, as no poet and philologist, born at Strarch 7, 1799, died in Prague, Aug. 5, asving learned German in his childentered the gymnasium of Budweis in studied subsequently at Pisek, Linz, e. He was destined for the pulpit, but miotic impulses declined to adopt that n. and engaged in 1821 as instructor in

's family, where he could at the pursue his literary occupations. He blished a series of original and translated emarkable at that period of transition old classical to the modern national the Cechic literature. In 1828 he be-ociate editor of the "Quarterly Review Catholic Clergy," published by the con-1 at Prague, and in 1834 editor of the 1 an Gazette," and of the "Bee," a liternal. He also commenced a series of on the Cechic language and literature, niversity of Prague. He lost both his as editor and that at the university, in ence of a remark against the emperor L. The favor of public opinion, however, omfortable situation as librarian of the afterward of the princess Kinsky, were ards of his liberalism. The Bohemian or the propagation of science elected him er in 1840. In 1842 he accepted a prop of the Slavic language and literature, established by the king of Prussia for efit of his Polish subjects, at the uni of Breslau. After the events of 1848, strian government, which now sought ort from the Oechic nationality, offered ofessorship at the university of Prague. not live long to officiate in this capacity, h having been accelerated by domestic nes and mental suffering. Of his nuworks, the following are most remark-Poems" (Prague, 1822, new edition, 'Slavic National Songs" (8 vols., Prague, 7); "Lithuanian National Songs" 1827); a metrical translation of Walter "Lady of the Lake" (Prague, 1828); "Lady of the Lake" (Frague, 1620); tion of Augustine's *De Civitate Dei*, 5 'rague, 1829–32); "Echo of Russian I Songs" (Prague, 1829); "Echo of Ceional Songs" (Prague, 1840). One of his orks was the "Popular Philosophy of ic Nations in their Proverbs" (Prague, After 1835 Celakowsky was engaged in rative study of all the Slavic dialects, t of which is given in part in his adnann's Čechic dictionary. As a o Ju ished by the grace and naiveté

puint songs. RIDGE, a town of Ireland, in the of Kildare, 15 m. W. from Dublin, on it bank of the Liffey, which is here by a handsome stone bridge; pop. in Manufactories of straw hats and and linen wares are carried on here.

In the vicinity are Reeves castle, the best of the earl of Leitrim, and Lyons castle, the seat of Lord Cloncurry. Swift's Vanessa resided for some time at Celbridge abbey, the residence of

Mr. H. Grattan.

CELEBES, an island of the Malay archipelago, of singular conformation, representing in appearance 5 extensive peninsulas grouped around a small central body. The northern, or peninsula of Menado, intersected by the equator, about one degree from its junction at the bay of Palos with the central mainland, extends from this point nearly due E. to its extremity at Cape Polisan, 480 m.; the N. E., or peninsula of Balante, is 182 m. long; the S. E., or peninsula of Teboonkoo, is 170 m. long; the S.W., or Boni peninsula, 160 m.; and the W., or Mandar peninsula, is a short projection about a degree in length. Celebes extends 800 m. from its N. E. extremity to its most southern point; it has an extent of sea-coast equal to all point; it has an extent or sea-coust equal to an the Atlantic United States, or about 2,600 m.; and yet its area is but '68,500 sq. m., or about the extent of the state of Missouri. The 3 extensive gulfs, Gorontalo, Tomaiki, and Boni, which serve to form these peninsules, are very shallow, especially Gorontalo or Tomini, which shands reaking an indentation of 240 m and though making an indentation of 240 m., yet has not sufficient depth of water to per-mit the entrance of the largest class of European vessels; and even those of the lightest burden have not been able to approach within 10 or 15 m. of its almost unknown coasts. But at the period of the first European intercourse with the island, 8 centuries ago, Portuguese frigates freely navigated this broad bay. There has been a sensible diminution in depth of the waters surrounding this island, and it is manifest that a gradual upheaval of this portion of the archipelago is in progress; and in the course of time, this and the neighboring island of Gilolo, which is also a group of peninsulas, will have their great bays filled up by terra firma, and will exhibit an unbroken outline like Borneo, which evidently of the continue to the continue dently at one time presented the same singular configuration as these two islands. Elevated mountain chains extend throughout the whole length of each peninsula of Calebes; but the peninsula of Menado alone is of volcanio erigin, and it has 3 active volcanic peaks, about 5,000 ft. high, near the E. extremity. The highest peak of the island, Lompo Betang, 8,200 ft. high, is near the extremity of the S. peniz-sula. The surface of the central mainland and of portions of the S. W. and S. peninsulas, is mostly elevated table land, covered with excellent pasture grasses, upon which are found gras-ing great numbers of wild horses and buffless as on the prairies of America. These natural pastures of Celebes are a peculiarity, not observed on any other island of the archipelago; but it has recently been found to be the or upon some of the Papuan islands, lying betwee the Malaysian and Polynesian formations. The extensive plains, which serve for hundle



in of islands said to abound in n of as si labih, "still more" the European intruders might ses the same as they had found group of islands. The Porouched at the points of 2 peninthey were different islands; and t named them as ilhas Cellebes, on being adopted by De Barros, stafieda, and other Portuguese s become fixed in geography and name of the island. But such a known to its inhabitants, who it "Negri Bugis," or the Bugis t advanced of the nations of Celeerted to Mohammedanism some arrival of the Portuguese in the They disregarded the teachings ese missionaries, which were so d and faithfully observed by the neighboring Molucoa islands. course of the Dutch with the 607. In 1660 they expelled the m their possessions in the Ma-. The Dutch maintained their lebes for 2 centuries, till their he British in 1810. But their Celebes, along with those in stored to them in 1816. The d Macassar a free port in 1846, ingapore; and Kema, in the Mein lat. 1° 22' N., and long. 125° lared a free port in 1849.

n Roman antiquity, a regiment of rds instituted by Romulus, comoung men of the most illustrious y were elected by the suffrages iæ, each of which furnished 10. s been derived by some from the first chief, but more probably was i in allusion to the rapidity with ecuted their orders. Their comlled the tribune of the celeres, and king, the highest officer in the fice was held by Brutus when he arquins from Rome. The celeres Niebuhr to have been the patrial, so called because they could fought on horseback, and thus to h the later equites or knights. pium graveolens, Linn.), an um-

nt cultivated for salad. In its which it is found in ditches rope, it is rank, coarse, and even by cultivation in gardens it becrisp, juicy, and of an agreeable een leaves, stems, and seeds are and the blanched stalks either r more usually as a salad. the celeriac, is raised only for se of the leaves, which becomes a oulb. Celery requires a deep, ned soil. The seed is sown in a ch the plants are transferred to they are 2 or 8 inches high. At height they are transferred for blanching to trenches which are nearly I foot in depth. The plants are repeatedly earthed up till they have risen 2 feet or more above the natural surface. Celeriac is not blanched, but grows openly, exposed to the light.

CELESTINE, the name of 5 popes. I. Sr.

CELESTINE, whose anniversary is celebrated April 6, a Roman by birth, and related to the emperor Valentinian, was created cardinal descon by Innocent I., and succeeded Pope Boniface, Nov. 8, 422. The heresy of Nestorius induced him to convoke the council of Ephesus in 431, at which 200 bishops were assembled, and which was presided over by his 3 legates. Celestius, the chief of the Pelagiana, having retired into Britain, he sent missionaries there who, in the space of 2 years, brought back that country to the faith. Shortly after this he sent Palladius to Scotland, and St. Patrick to Ireland. epistles of this pope have been preserved, but those written to the bishops who had taken part in the election of Nestorius and to Fuengins have been lost. He died April 6, 482, and was buried in the cemetery of St. Priscilla, on the Via Salaria. II. Guido di Castello, was a disciple of Abelard, and was created cardinal priest by Honorius II., and made governor of Benevento by Innocent II., at whose death he was elected pope, Sept. 25, 1148. As soon as he had ascended the pontifical throne he received ambassadors from Louis VII., who came to supplicate peace, and also absolution from the ecclesiastical censures under which the kingdom had been laid by his predecessors. The pope granted their request in the presence of the nobles of Rome. Having occupied the pontifical see 5 months, he died March 9, 1144, and was buried in the church of St. John Lateran. Only 8 epistles of his are extant. III. GIACENTE ORSINI, a Roman by birth, and descended from the illustrious family of that name. He was created cardinal by Honorius II., elected pope when past 80 years of age, March 80, 1191, and died Jan. 8, 1198. The day after his consecration he crowned the emperor Henry VI., and his empress Constance. After the coronation, the emperor restored to the pope the city of Tusculum, which the pope gave to the Roman citizens, who to avenge He aftersome former disputes destroyed it. ward excommunicated the emperor, because he kept in prison Richard Cosur de Lion. Among other noteworthy events of Celestine's pontificate was his confirmation of the Teutonic military order in 1192. IV. The son of John Castiglione, of Milan, and Cassandra Crivelli, the sister of Urban III. He was appointed canon and chancellor of his native city, and afterward became a monk in the monastery of Altacomba. Gregory IX., in 1227, created him cardinal, and sent him as legate into Tuscany, and after this to Lombardy and to Mont Casino, where he found the emperor Frederic II. preparing to send succors to the Holy Land. He was elected pope Sept. 20, 1941. Advanced in years, and with health much impaired by in-



his retirement, he refused to accept the dignity, though the cardinals and Charles II. king of Naples, and Andrew III. king of Hungary, urged him strongly to do so. He attempted to fly from his retreat, but was prevented by a vast concourse of people. At length he consented to accept the dignity, and proceeded to Perugia accompanied by the kings of Naples and Hungary, and was crowned Aug. 29. He made his public entrance into the city amid the applause of more than 200,000 people. In the city of Aquila he appointed 12 cardinals, 5 of whom were Italians and 7 French, and then went to Naples. He made 2 constitutions which provided for the cardinals entering into conclave on the election of a pope, thus renewing a constitution already made by Gregory X. in the council of Lyons; and also another respecting the pope resigning his office. After occupying the pontifical see during 5 months, he renounced the tiara, Dec. 18, 1294, on finding that he was but little acquainted with temporal matters, and still retained his unconquerable love for solitude. The see remained vacant 10 days, when Boniface VIII. was elected his successor. Celestine then retired again to his solitude at Maiells. to devote himself althouther to prever and

rigor. It is remarkable that v was prescribed in Europe, it wa the East. There celibates be names, were raised to high 1 styled eunuchs of the sun a heaven. With the progre Greece and Rome, the calib more common, and custom trium laws. Thus often the men of k losophers, athletes, gladiators, a some from teste and some from nounced marriage. This was 1 case with the disciples of Py Diogenes. Celibacy was early peculiar privilege and duty of the Among the Jews, those who were the service of the temple were marry, but under certain special spec Among the Egyptians, the probound to chastity. The gy Brahmins of India, and the his Athenians, lived in celibary. maidens among the Perithe worship of the sun, among the Romans, mitted to guard the s of religion

umph. Yet there was no law nor opinion or action on the subject, ot till the 4th century that even lergy began generally to live in se council of the Spanish and Afes at Elvira, in Spain, A. D. 805, ecclesiastics of the 3 first grades to conjugal intercourse under penalty A motion to the same effect the general council of Nice, in it it was rejected. Yet a tradition dent about that time, that priests I into holy orders should not afry, and this practice being once ed naturally to the opinions that were married should not be adorders, and that celibacy was a than marriage. In the Latin ge of celibacy was most strictly ear the close of the 4th century 3 forbade conjugal intercourse to out distinction, and this interdic-sated by the subsequent popes and emperor Justinian declared the cclesiastic illegitimate, and incapaan heir. The council of Tours, in that married monks and nuns innmunication, and that their mar-The Greek church opposed the Latins, and has always recogplace before their consecration. and the bishops who are chosen them, are unmarried. In the Rocouncils were frequently occupied 3 measures against violations of the cy; and observance of the law was insisted upon under the pontificate VII., who excommunicated every st, and every layman who should a service celebrated by him. The ected celibacy as contrary to natupermitted Protestant ministers to her thought at first of maintaining of monks, by reason of their vow, 1 married himself. This innovation question up again in the Catholic although the emperor, the king of many of the electors and princes ble to the marriage of priests, yet of Trent, which closed its sittings sided finally to retain the discilibacy. From that time the law absolute in the Roman Catholic One who has been married canined if his wife is living, unless takes place between the parties by ent. Those who have yet attained er orders may renounce their benetheir orders, and be married; but se with sub-deacons and the higher such the pope alone, notwithstanddibility of the character of priest, ermission to retire from the priestmacquently to contract marriage. simplest form of organic life, from

which all vegetable and most animal structures are built up. Since the improvement in the microscope within the last 25 years, and more especially since the researches of Schleiden in 1837, and of Schwann a little later, the attention of physiologists has been unceasingly directed to the minute elementary structure of living things. The observers last named have shown that a cell, containing within it another cell (the nucleus), the latter containing a granular body (the nucleolus), is the primary form which organic matter assumes when it becomes an organic structure; the bodies of many animals and plants are composed entirely of cells, and the tissues of the embryo, in the first instance, consist of nucleated cells, which are developed into the dissimilar textures of the adult animal. However great the difference may seem between the animal and the plant, when seen by the un-assisted eye and in their perfect form, they gradually approach each other as we descend in the scale, and finally meet in a common structure, the simple individual cell; and, when reduced to this, no one can say to which of the two great kingdoms it belongs. The microscope has revealed the great fact of unity of plan in this elemental structure throughout the organic world. In former times the power of spontsneous motion and the presence of a stomach were considered the distinctive attributes of animals; but we now know that most of the lowest vegetables possess this power at some period of their lives, and by the same hair-like filaments, or cilia, by which the lower animals move; while the sponge and some protocos have neither the power of motion nor a proper stomach. No. chemical element can be considered as a characteristic of the animal as distinguished from the plant; and we have seen that the primary cells are absolutely indistinguishable from each other. In the cell, however, is to be found the distinction between plants and animals, viz., in its power of development, in its destiny: in the plant, the cell, however changed in form and contents, always retains the characters of a cell: but in the animal the cell usually undergoes a development into tissues, in which the cellular form completely disappears. In the developed animal of the lowest types, where the distinction is the most difficult, the elements of nutrition are eminently characteristic; the simplest proteson, which seem to be only a mass of living jelly, must feed upon organic compounds derived from other living things which are taken into the interior of the body; while all plants derive their nourishment from the absorption of inorganic elements by the external surface, and evolve oxygen, by the decomposition of carbonic acid, under the influence of sun-light; so that the simplest members of the two kingdoms, which cannot be distinguished by any peculiar-ities of structure, are separated physiologically by the phenomena of nutrition. Though the vegetable and the animal cell do not differ except in their ultimate development, it will re der the subject more intelligible to begin w

pression, the cell. 2. The universality of the usually contain an evid sumes a brownish yellow ca application of this particle for the formation of organized parts, the tissues." The vegetable by an iodine solution; the n contains smaller cells, or cell is a membranous vesicle containing a fluid. The cell wall is composed of two layers: an inlow plants the single cells live tinct; others unite together shaped masses; others join in a ner, called the "primordial utricle," first formed and the most essential to cell existence; it is thin and delicate, and of albuminous constituner. In the vegetable ki ally increase by dition; the outer layer is produced after the primordial utricle and its contents are enclosed, and ded with its half of the primitive takes no part in the formation of the cell; it is new cell secretes its own gelat thick, strong, and principally composed of celand soon becomes free from am lulose, a starch-like substance containing no nisometimes the subdivision is so trogen. The outer layer is merely protective, ries of cells is produced with while the primordial utricle is engaged in the vital operations of the cell. The contents of velope, hanging on to each owne grow, the cells of the higher form oped into special organs. Gene the vegetable cell, more or less deeply colored, have been collectively called "endochrome," lowest plants is effected by the u and consist of colorless protoplasm or organ-izable fluid containing albuminous matter, and in the interior a mere watery sap. The distincof a pair of cells, by a process ter tion, the membrane as well as the ing completely fused; tion between wall and contents cannot be made into a single mass, the whic out in some of the lowest forms; sometimes the primordial cell of a new cell appears as a mass of endochrome, retaining cess of binary subdiremarkable properties of the pecially in the lower fo its form by its own viscidity, the superficial layer gradually becoming consolidated, and the inteCELL .681

or green vegetable wax, the cause of en color of plants, and existing in the and young stems when not deprived of it is soluble in alcohol and ether, and thin coating to the granules of the cell. of water plants the circulation of contents of the cells may be easily ig up one side and down the other, susping into adjoining cells; the nucleus, s nucleolus, may be distinguished from y its larger size and its greater trans-Elongated cells unite in many plants n vessels containing milky secretions; these are the juices whose concretion proaoutchouc and gutta percha. Fixed oils und as contents of cells, especially the seeds, where they serve to nourembryo; among these are the cocoanut, sastor, croton, linseed, rape, and other ad in medicine and the arts. Cells also volatile oils, camphor, gums, wax, and they contain crystallized mineral sub-, called raphides, usually salts of lime; erogen, a gritty substance found often in tre of pears, giving hardness to fruit-stones t-shells, and constituting the dense white s known as vegetable ivory. The stings ind, as of the nettle, are elongated cells sing an irritating liquid. The beautiful of flowers depend on coloring matters, fluid, contained within the cells. All then, are made up of a primitive memxisting in the form of cells, each providhe young state with a nucleus or cytond nucleoli, which by aggregation and ation make up all their tissues; each an independent existence, and secreting er may be necessary for the perfection tissue of which it forms a part, or for roduction of its species.—In addition to las been said before (in vol. i. pp. 522, ticle Anatomy), it may be stated that the cell in its simplest form lives independf other cells, and requires for its growth arity nothing but a proper nutriment and ature. Like the vegetable cell, it origia a reproductive germ or granule, preparriously by another cell, which organizes rient particles in its neighborhood, and rom them the cell wall and its contents, which are reproductive granules, the of new cells to be set free by the rupture wall; unlike the vegetable cell, it cannot e in itself inorganic elements, but must organizable nutrient fluid supplied to which each cell selects the elements for the performance of its function. The cell has no cellulose wall, its contents nclosed in a single membrane composed minose; in its young state it contains a aid plasma, which may continue as such of mere growth and multiplication, or displaced by the special product natural cell. It may multiply by binary subdiby the breaking up of its contents into particles, or by the aggregation of the molecules of the circulating fluids into masse whose exterior forms a cell wall, the interior becoming liquefied cell contents; this last can take place only in highly organized animals. The simple membrane of cells and basement membrane are structureless; after this come the granules or molecules, very minute, floating free like those in the chyle, or enclosed as in the nerve corpuscies, gland cells, and pigment cells; next to these simple structures come nuclei or cytoblasts, cells within cells, and sometimes with granular nucleoli; the blood corpusoles are vesicular nuclei, with walls of simple membrane, without nucleoli; the epithelium and pigment cells have nucleoli; the nuclei of the lymph and Free nuclei chyle corpuscles appear granular. are found in the gastric juice, in the gray corebral substance, and in some quickly growing tu-mors; nuclei in cells (and each cell generally contains only a single nucleus) appear to be in contact with the cell wall, without any relation to the centre of the cell. The walls of animal cells coalesce to form tubes and sheaths, while in plants, according to Quekett, the cell wall is always present in the oldest and hardest tissues; and in the former, except in the true cellular tissues, the walls disappear and no trace may be left of the nucleus or nucleolus; in other cases the nuclei may remain attached to the inner surface of the wall. Nuclei are generally oval or round, and do not conform themselves to the different shapes of cells; but they are sometimes elongated and divided. In the fully developed blood corpuscles the nucleus has disappeared; in other instances, the disappearance of the nucleus is a sign of degeneration of tis-sue; in the yolk and milk cells, and in the cell products of disease, the contents are granular. In the chyle and lymph corpuscies the reproductive granules are set free by the bursting of the cell wall, and are in their turn developed into cells at the expense of the organizable materials of the fluids in which they float; similar granules in the plastic lymph of inflamed surfaces give rise to successive generations of cells by which the healing process is effected. The nucleus, where it exists, seems to be the chief instrument of the functional ac tivity of the cell. In many cases the multiplication of cells is effected by the division of the nucleus, each portion giving origin to a new cell, as in the case of growing cartilage; where rapid growth is needed, and for a tissue of only temporary duration, a cluster of secondary cells is produced in the parent cell by the minute subdivision of the nucleus, as in the case of the cells of secretion in the glandular organs, and according to Dr. Barry, of the primary devel-opment of the embryo; but in all cases cells s cells must take their origin in germs prepared by a previously existing cell.—As the cell is the type of organization, we must expect to find in it the first rudiments of the embryo; the cell containing these rudiments is the soum or egg; it is a cell enclosing a second, within which is a third of granular consistence; the first is the vitelline

ganizing processes connected chiefly with the cell wall. The corpuscles of the blood are formed constituent gland cells. are developed in the male in the first instance from the embryo cells of male in the ovaries. the vegetative layer in mammals and birds, and testinal mucore memb of the inner surface of the vitelline membrane concerned, in the lower vertebrates. The cells of bone, of cells, whicu the brain, and of cartilage, have already been digestion, and re described under those heads.—The principal tistory process, convey sues in which cells continually exist are in fat, during the presence of cayse select, absorb, and prepare the coloring matter, skin and mucous membrane, and secreting glands. Adipose tissue consists of cells with walls of structureless membrane, lacteals; in the blood, the containing fat, globular when single, variously puscles convert the alba flattened under pressure, and without perceptifibrine, which they set stant dissolution; and finaly. ble nucleus except in the embryo; this tissue is capable of rapid growth, as is familiarly seen in fatty tumors. Coloring matter in vegetables another set of cells. tween oxygen and may exist in the cell wall, as in some ferns, or sues, or perform the run As each cell has its periou un in a contained fluid, as in chlorophyl generally; fluid coloring matter exists in the blood cells, but pigment usually occurs in the form of granules. The pigment of the choroid coat of the understand the nature of the of growth and de ganism. The absur elaborating cells are ve eye consists of innumerable granules, about 23-23 of an inch in diameter, enclosed in 6-aided cells, the depth of color being in proporistence: the cells of a ical: t mof t tion to the quantity collected in a certain space of the vu οf within t cell: the coloring matter of the skin A ... prolo

sed functional activity. The faster any tismade to live, the shorter will be its life, the repose necessary for reparation be. As in the lower fungi and the early of embryonic development, cells occamy proceed to the work of multiplication extreme rapidity, neither the primary nor dary cells undergoing any further; this distinguishes fungoid or malignant was from healthy structure.—For cell palogy and minute investigations into the histofthe cell, the reader is referred to Dr. nett's "Essay;" he regards pathology as an physiology, it being impossible to distinct the cells of either as to their origin ral aspect; the difference relates to ir u 1y, not to their structure.

ELLE MARE, ANTONIO GIUDIOR, prince of, of Giovenazzo, a Spanish diplomatist of wese origin, born in 1657, in Naples, died v 16, 1733, in Seville. Brought up at the of Charles II. of Spain, he afterward the battles of his successor, Philip V., the imperialists. Taken prisoner in - he was detained until 1712. Three after his return to Spain he was o France as ambassador. Here he joined se conspiracies planned against the duke of ans, with a view of vesting the regency of ice in Philip of Spain, but the plot was disd, and the seizure of Cellamare's desues laid bare the whole details. He was out of France at once, and on his return appointed captain-general of Old Castile, which he retained until his death.

LARER (Lat. cellarius), under the Roemperors, a functionary who examined the
unts, and to whom was committed the care
eir domestic affairs. The name was subsetly given to the purveyors or agents for
tes and monasteries. The cellarer was one
the agreat officers of monasteries, and had
r his orders the bake-house and the brawe. He regulated the harvesting and storing
e corn, and managed the whole economy of
provisions. His compensation was ray
of
the grain received, and a furred gown. The
was sometimes held by persons of illusbirth; thus Philip of Savoy, in 1948,
wellarer to the archbishop of Vienna.

ELLARIUS, Christoph, a learned German, at Schmalkalden, Nov. 22, 1638, died in a, June 4, 1707. He devoted himself so ly to the study of the oriental languages and ure, that it is related of him that during years he spent at the university of Halle, ronce went out for a walk in the streets. Anted more than 20 Greek and Latin clasworks, and wrote several volumes on the mar, geography, history, and languages of ital countries.

ELLE (Ger. Zelle), capital of the bailiwick same name in Hanover, district of Lune, on the Aller, which is here navigable, and se Hanover and Brunswick railway; pop. 00. It is a well-built and paved town, the

seat of the supreme court of Hanover, contains churches of different denominations, an old castle formerly occupied by the dukes of Lineburg, a medical college, 2 public libraries, an agricultural socioty, and various other public institutions. Celle is also noted for its annual horse races. The famous stud of the king of Hanover and the house of correction are near the town. In the castle park is the mausoleum of Matilda, queen of Denmark, who died here. The inhabitants are employed in the manufacture of to-bacco, cigars, stearine, &c., and carry on a brisk transit trade in wool, wax, honey, and wood.

CELLINI, BENVENUTO, an Italian artist, born in Florence, in 1500, died there Feb. 25, 1570. Intended for the musical profession, to which his father was devoted, he gave the preference to the pursuits of a goldworker and engraver. Endowed by nature with a skilful hand and a fertile fancy, he soon distinguished himself in chasing sword handles, cutting dies, and engraving medals. But his headstrong disposition tended to involve him in brawls and quarrels, which were free however from malice, and frequently blended with a charming vein of drollery and audacity. His debut in the sphere of art went thus hand in hand with his exploits in the field of duelling, and at the age of 15, when his genius had already excited the admiration of his townsmen, he was banished to Sienna. After wandering for some time from one town to another, he eventually found his way to Rome, where a gold medal of Clement VIL, of which he had furnished the die, secured him a favorable reception at the papal court. The pope took him into his service, and this position gained him abundant employment in cutting seals for many eminent prelates. He also took part in the defence of the castle of Sant' Angelo, Rome being at that time the theatre of conflicts between Charles V. and Francis I., and Cellini was fond of boasting that he had killed the constable of Bourbon and the prince of Orange. At any rate, when he left Rome he had added the laurels of a soldier to those of an artist. At Mantus where he remained until an affray compelled him to leave the town, he became acquainted with Giulio Romano, and through him with the grand duke, who gave him some com-missions. On his return to Florence, where his military exploits at Rome had reinstated him in the good graces of the authorities, he formed an intimacy with Michel Angelo; but his violent temper again embroiled him in a quarrel, which compelled him to leave in diaguise for Rome. While at Florence, he devoted himself principally to the execution of medals, the best of which are Hercules and the Nemean lion, and Atlas supporting the globe. At Rome, he wa appointed engraver to the mint, but soon found himself again in trouble. This time a mistress of his named Angelica, who had fied to Naples, seems to have roused his wrath. He followed her to Naples, but on receiving the pardon of the new pope (Paul III.) returned to

migration or irruption of barbarians ever tramonths all Rome with the capitol, and that which v velled, on the most extended scale, from the west easterly, although in some irregular local movements, in working southward, they may phi-were commanded by it is delivered to us by the historians, is identical with the have temporarily assumed an easterly direction -as, in entering Italy from the northward, valent to king or chieftain. they must necessarily have done, owing to the trend of the land. If, however, as there is much cause to believe, the Cimmerii, who envarious facts we find that, the 8d century before Chr knew the Kelts as settled tered and long held the Crimea, were Cimbric west of Spain and along the Celts, we know that so long ago as the reign of of France, and that at arıy w Ardys, king of Lydia (678–29 B. C.), they entera vast simultaneous irru ed Asia Minor, necessarily from the eastward, ans poured down upon civu since they were land journeyers and not seanorthward. Naturally. the farers, and held Sardis until expelled from it the invaders to o by Alyattes, the contemporary of Cyaxares, in the end of the 6th century before Christ. But they held yet longer to the Crimea. It has been which they were k and to have train eastward, instead on stated above that the Gauls and the Cimbri are really did, from the ... only coming upon the ilization. The same is both Celts, and in order to show that fact satisfactorily, it is necessary to have recourse both to etymology and ethnology; this, however, can be done briefly and simply. In relation to the vailed in reference to Herodotus also ascribe first, it is necessary to remark that much diffi-culty has arisen in tracing the origin of words deducible from the Greek, from our havi ward Asia Minor. e than that he fo Ori a after ti adonted the Letin & which even in that le ity of 1

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than to the family; little constructivetle tendency to legislation, to art, unless udest music and to wild ballad poetry; ble female chastity, and great adherthe race, its habits and traditions. IBERIANS, CRITIERRI, a people of the

of Spain, who seem to have occupied and portions of Old and New Casl Navarre. Every thing concerning igin, the places whence they came, ir connection with other races, is exy obscure. According to Diodorus they were composed of 2 nations, the y obscure. ad Iberi, whence they were called Celtibut whether he intends to say that ole, for it deserves that name, was made fusion of 2 tribes or races into one naler one polity, or that the whole people dually grown up from the mixture of 2 y intermarriage, does not appear. The found in Spain, when they dispossessed thaginians, 2 Celtic tribes, as such, still pure and unmixed one on the Anas or is, in the south-west of Spain, and one on ho, in the north-west of Portugal, and hese the Celtiberians, who occupied the lying about the head waters of the Taending northward to the Ebro in the of Saragossa, and nearly surrounded by ipitous ranges of the Castilian mountains, ierra Blanca, and the eastern roots of the The 2 other Celtic tribes reforena. , it is worthy of remark, are situated in re difficult mountain fastnesses, the forong the spurs of the Vilheercas or Toledo ns, the latter in the intricate and alpregnable hill country of Gallicia and "With regard to these 8 nations," remarks, "it seems to have been the d opinion that the Celts crossed over inces as well as the Alps, and that from termixture with the Iberians, whom aquered, sprang the nation in whose is intermixture is expressed; while a their host settled on the Anas, and f these went forward to the Minius. the slightest trace is to be found of any ncerning this expedition. The notion bably nothing more than a conjecture y foreign historians with regard to a which had spread so far beyond its on other sides."

ENTATION, the term applied to the ion of steel, which consists in covering iron with fine charcoal, and subjecting ole to long continued red heats till a of the carbon has entered into and id with the iron. It is also applied to milar processes.

ENTS, a term applied to those bodies re capable by their interposition of unitogeneous or heterogeneous substances, ion may result either from chemical complete or it may be simply mechanical, and he adhesiveness of the cement, by which cluded from the surfaces to be united.

In the former category may be classed the hydraulic or building cements, used in architecture, and formed from those argillaceous limestones which on calcination are rendered capable of setting under water with rapidity, of acquiring great hardness in a short time, and of being employed without the admixture of any foreign substances. In the latter class the most prominent are the bituminous, oleaginous, and resinous, beside miscellaneous cements, a great num-ber of which are employed in the different branches of the industrial arts. Among the hydraulic cements, the most widely known are the Roman, Portland, Medina, and Mulgrave in England, and the Kingston and Rosendale cements in this country.—Roman cement was first manufactured by Mr. Parker of London, from the septaria nodules of the London clay formstion, found in the island of Sheppey; his process, which was patented in 1796, consisted in calcining the stone nearly to the point of vitrifaction, and then reducing it to powder by crushing; he applied the term Roman to this preparation from its similarity to that formed by the ancient Romans from pozzolana and tra substances of volcanic origin, and nearly allied to the septaris in their chemical constitution. At a later date it was discovered that the septaria of other localities furnished a coment similar to Parker's. Medina Coment is prepared from nodules found in Hampshire, while Mulgrave or Atkinson's cement is formed from the argillaceous limestones of the lias. Port-land cement is so termed from its similarity in color to the Portland stone; it is not properly a cement, but an artificial hydraulic lime composed of a mixture of clay and chalk from the valley of the Medway; the materials are ground together under water, and afterward dried and burnt in proper kilns. Portland cement is noted for its extraordinary hardness and tenacity, but, as it permanently expands in setting, must not be used where such a property would interfere with the solidity of the work; in external plastering it is of great value.—In the United States hydraulic coments are obtained in numerous localities. Cements of good quality are manufactured in Virginia, on the banks of the Potomac at Sheppardstown, and in the vicinity of the Natural Bridge, also in Kentucky near Louisville, and in many other places where the silicious magnesian limestones are found. Those from the state of New York, however, are considered the best, particularly the Kingston and Rosendale cements, manufactured in Ulster co.; these were used in the construction of the Croton aqueduct, and of many other important public works throughout the country. The cement stone of Kingston yielded the following results according to an analysis of Dr. Beek:

-	Before calclastion.	After calcination.
Carbonio acid	84.90	5.00
Lime		87.00
Magnesia		10.05
Billion	15.87	無物
Alumina	9.18	18.40
Peroxide of iron	2.85	8.80
Torre des		120

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An analysis of the Sheppey stone, from which Parker's cement is obtained, gives:

Carbonate of lime	0.690
Magnesia	
Oxide of iron	0.087
Oxide of manganese	0.013
Silica	0.180
Alumins	0.066
Water	

As a general rule it may be stated that a limestone must contain from 25 to 35 per cent. of clay (silicate of alumina), in order to yield a good, quick-setting cement, though 10 to 12 per cent. of clay will suffice to give it hydraulic properties. Great difference of opinion has existed in regard to this subject; some have ascribed the hydraulic property to the presence of oxide of iron, and others to the oxide of manganese, to silica, alumina, magnesia, and soda. Berthier and Vicat, however, found that the presence of silica was indispensable, and they assigned no importance whatever to the oxides of iron and manganese. Without entering upon a full consideration of all the substances involved, it will be sufficient to say that certain earthy substances, and especially silica, combine with the lime which is produced by the calcination of the carbonate of lime contained in the cement stones, and that the silicate thus formed, absorbing water, becomes solid.—The general name of Roman cement is often, though erroneously, applied to all the natural hydraulic cements, and the process of preparation is essentially the same. They are burned in kilns, and a lower degree of heat is employed than that recommended by Parker; the cement being under burnt, economy is effected in the process of grinding. In burning, the stone loses about 1 of its weight, and acquires a brown tinge, differing in shade according to the kind of stone used; it is then soft to the touch, and leaves a very fine dust upon the fingers. The blocks of cement might be the fingers. preserved for a long while in a dry room, in the same state in which they come from the kiln; such is the difficulty with which they absorb water that Gen. Pasley pronounced them incapable of so doing. For use, however, the cement must be ground, and is then put in casks well closed, since exposure to the air rapidly deteriorates its quality, the powder absorbing water and carbonic acid, and passing into the state of a subcarbonato; its usefulness, however, may be restored by a second burning at a lower degree of heat than in the first instance. Petot has observed that when the calcination of cement stones is so extended as to expel all the carbonic acid, the resulting powder is perfeetly inert, showing a remarkable difference between this class of limestones and those which produce the common lime. This property should be borne in mind in all experiments made to test limestones for hydraulic cement. Cement should be ground very fine; the French engineers require that the sieve through which it passes shall be of No. 2 of their wire gauze, and contain 185 meshes to the square of a side of 4 inches. The specific gravity of the cement

powder varies from 0.85 to 1; the light the best. No little skill and attention at quired in the use of these natural cement if they are not brought to a proper consist or if the water be used too sparingly o abundantly, or if allowed to stand after made, they will solidify unequally crack adhero badly to the materials. But a quantity of water is necessary to work ments to their greatest point of resistance cording to Treussart, the best properties 1 of water to 8 of cement by volume; mixing, the cement should be beaten t quently, since the more it is stirred before ting commences, the harder it becomes time of setting varies considerably, being with sea water than with fresh, and be tarded in proportion to the amount of sa ployed. When used pure, it will often in 5 or 6 minutes, and the time should exceed half an hour, or when used under 1 hour. If 1 to 2 parts of sand be adde of cement, the mixture will set in fr minutes to 1 hour 18 minutes in the proportionally longer time under water. sea water, and especially if the same h used in mixing the cement, the time t tend to 24 hours. Pure cement, af sure of 20 days to the air, offers a resi rupture of about 54 lbs. to the square is if it be mixed with half its bulk of sand sistance falls to 37 lbs., and with an'e to 27 lbs., showing in this respect a r difference from the limes. The re forded by pure cement against the e stones upon their beds may safely t at 9 lbs. per square inch, though reaches 18 lbs. The natural cements ployed to the best advantage without. used in works under water, or where crushing weight is to be brought upon once. For cornices, or coatings expose weather, we may combine 2 parts of 8 of cement, and for perpendicular face of sand with 2 of cement, being careful the formation of fissures, which would the coating to the effects of frost and ul destroy it. Cement adheres very str iron, still more so to granite, and most brick.—Beside the cements already me many others may be obtained, either calcination of the hydraulic limes, w duces a more rapid setting and a greate of hardness, or by the mixture of bur with the rich limes; the latter do not setting, as is the case with the former, inferior in point of hardness; they a ever, often used to advantage when mi: the slow-setting limes, and employed situations, as in the lining of water-tanks; still they are gre , the natural cements, and their emple only be advocated on the score Another class of coments are those who is gypsum or plaster of Paris, instead o draulic lime; in this case the har

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a union of the cement with water, and not the formation of a silicate, as in the former coments; as gypsum alone, however, never acquires any great degree of tenacity, it is employed in combination with alum. In Keene's cement, powdered gypsum is mixed with a solution of alum, and then heated till all the water in combination is dissipated; it is then powdered, and when used, slaked by a solution of alum in 12 or 13 parts of water. Martin's cement differs from the above only in adding to the original compound a portion of carbonate of soda, or carbonate of potassa, and in using a greater degree of heat; while in Parian cement borax is substituted for the carbonate of soda or potassa. These are useful in floorings, skirtings, &c., and especially where damp and vermin are to be apprehended; they may be em-Ployed like stucco in cementing walls, and their surface afterward embellished by delineations similar to those of fresco painting. Stucco is used for coating walls, ornamenting ceilings, c., and consists of powdered gypsum, mixed with a solution of glue or gelatine. Scagliola is somewhat similar, and derives its name from the numerous splinters or scaglioli of marble used in the work. (See Srucco.)—Bituminous cements are employed as substitutes for flagging in the paving of streets, and for protecting the extrados of arches from the effects of water, The former application is limited, but for the latter purpose they are of great utility, since in all new masonry there are movements which fissure the coatings executed in lime or hydraulic cements, to say nothing of the crevices produced by the unequal contractions and shrinkages of the cements, so that it is almost impossible to render such coatings impermeable; these defects are admirably remedied by the elasticity of the bituminous cements; small crevices often unite of themselves, and large repairs, when necessary, are easily executed. These cements are obtained from the natural asphaltum; mixed with chalk or other form of carbonate of lime, it is best adapted to works which are exposed to the effects of the sun; alone, it would melt in such situations, but for subterranean works is considered preferable. (See Asphaltum.) The cement is spread with trowels, and as far as possible formed into slabs of about 8 feet in width; it should be evenly spread and compressed, and fine sand then sprinkled on the surface, and worked in with the trowel, taking care to fill any crevices that may be formed by air bubbles with cement, and not with sand. For coating arches, a thickness of $\frac{3}{5}$ to $\frac{1}{5}$ an inch is sufficient, giving a quantity of about 41 lbs. to the square yard; it is also advisable to lay the cement upon a bed of concrete or mortar; in street paving this precaution is indispensable, and the thickness of coating must be fully 3 of an inch; it is also well to add a little quicklime to the boiling asphaltum, to prevent the cement becoming too soft under the heat of the sun's rays. The surface upon

which the cement is employed must always be . dry, and it should be used as hot as possible. Should the asphaltum be found too brittle, a quantity of mineral pitch or petroleum may be added to correct this defect, but coal tar or vegetable pitch must on no account be used. These latter, though greatly inferior to the natural bitumens, may in some cases serve as tolerable substitutes for them; though deficient in elasticity and durability, they yet make good coatings for vaults, &c. For pavements, how-ever, they are not at all adapted. They are prepared by mixing powdered calcareous stone with the boiling pitch or tar, the relative proportions being obtained in each case by direct experiment; the stone must be well dried, for if wet, the vapor generated by it would render the cement porous; and care must also be taken lest the stone be converted into quicklime, as this takes place with comparative facility, owing to its comminuted state. They are to be used in the same way with the other cements, except that it is desirable to employ greater thicknesses.—The oleaginous cements were formerly much used, under the name of mastics, for the purpose of ornamental decorations; they furnish a smooth, close-grained surface, but require repainting every 8 or 4 years. The expense and difficulty of manipulation have caused them to be seldom employed at the present day. The most widely known mastics are those of Hamelin in England, and the mastic de Dhil in France; their exact composition is kept secret, but the main ingredients are pounded brick-dust or well-burnt clay, litharge, the red protoxide of lead, and linseed oil.—The cements used on the continent of Europe for mosaic work are of 3 kinds. The first is bituminous, being composed of pitch mixed with a black earth, and is used in setting the large tesseras in floors; the second is oleaginous, employed for setting stones of middling dimensions, and made of the calcareous stone of Tivoli, and of oil; while the third, for the more delicate mosaics of pieces of glass, is composed of lime, brick-dust, gum andragan, and the whites of eggs.—Among the interminable list of miscellaneous cements, we find a very useful one for joining broken pieces of glass or chinaware; it is termed diamond cement, and is prepared by steeping isinglass in water till it swells, and then dissolving it in proof spirit, to which is added a little gum resin, gum ammoniacum, or resin mastic, dissolved in the smallest possible quantity of alcohol; it partially resists moisture, and should be gently heated before applied. Haule's cement for the same purpose consists of 2 parts of shell-lac dissolved in 1 part of oil of turpentine, and cast into sticks. Keller's cement is prepared according to the following formula: Steep 2 parts of finely-chopped fish glue for 24 hours in 16 parts of water, then boil till the liquor is reduced to 8; add 8 parts of alcohol, and strain the whole through linen; while still warm, mix with a solution of 1 part of mastic in 9 of alcohol, and 1 a part of gum

the custom, first of l with a hot cement of rosin, wax, and lime. plots which covered Varley's cement is formed by melting 16 parts of and then of leaving a space rosin and 1 of beeswax with 16 of whiting previously well dried by having been heated to be reserved for burials. to redness, and stirring the whole well during invaded the church itself, v the fusion. Singer's cement, for connecting armined by crypts like a city by ticles of brass and glass, is composed of 5 lbs. of the earlier middle ages the rosin, 1 of beeswax, 1 of red ochre, and 2 tablespoonfuls of plaster of Paris, all melted together. According to Ure, a cheaper comchurchyard, and relics of the seen in the graves which surroun in cities, and in the common j pound, and one well adapted for cementing volthe church and burial ground in But with the increase of popula necessary to establish large put taic plates into wooden troughs, is made of 6 lbs. of rosin, 1 of red ochre, 1 lb. of plaster of Paris, and 1 lb. of linseed oil, the ochre and without the city walls, and thi become general in moc n t plaster to be calcined beforehand, and added to the other ingredients while in fusion. White celebrated of the Europe are those of Pisa and I wax, rosin, and Canada balsam form a cement nearly colorless. Cameos of white enamel or Chaise of Paris. That of .. colored glass may be joined to a real stone, to Santo, is a beautiful oblo give the appearance of an onyx, by the use of and 170 feet wide, surn white marble 60 feet high resin mastic, and in the same manner false backs or doublets may be connected to stones so as to ancient Etruscan, Greek, and alter their hue. In these the cements must be and other sculptures, and with pa softened by heat before being applied. Iron earliest Italian masters. In its pipes are often cemented by a paste of iron enormous mound of earth, filings and chloride of ammonium, moistened brought from Palestine duas

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opolis of Paris, is situated N. E. cuty, and extends from the boundary r almost to that of Amandiers. It was ed into a cemetery by Napoleon I., ins the tombs of Abelard and Heloise, une, Molière, Beaumarchais, Delille, allini, Weber, Laplace, Cuvier, Arago, Constant, Börne, Royer-Collard, Marthe painter David, Sieyès, Barras, Soulié, Balzac, and others of the most hed men of France. Its highest elevainds the city on one side and the surcountry on the other, and its hills and re covered with every variety of obelisk, pyramid, funeral vase, and I flowers and garlands. The ceme-Russia are usually distant from cities es, and planted with tall pines. Among noted and beautiful cemeteries in the ates are Mount Auburn, near Boston, CAMBRIDGE), Greenwood, in Brookaurel Hill, near Philadelphia.

, BEATRICE, a Roman maiden of the ury, noted for her tragic fate. Her unt Nicolo Cenci, was a man notorious ad character and fiendish passions, uld have brought him to the block, if nse fortune had not enabled him to several occasions from the hands of In the latter part of his life he retired second wife Lucrezia, with Beatrice oungest brother Bernardo, to the castle a, situated in a desolate spot on the ills, near the Neapolitan frontier; and that savage rock, the castle of Pe-here "at noonday 'tis twilight, and blackest night," the monster, after aused the death of 2 of his sons, ed a diabolical outrage upon the his own daughter. Beatrice brought efore Pope Clement VIII., but as her r justice remained unheeded, the asn of her unnatural parent was deteron by her stepmother, her brother, over. According to other and more by authorities, Beatrice and her relano part in the assassination, which is ave been perpetrated by some of the mies of the old man, who was exe-l over the country. But, however have been, Beatrice was accused of and after having been subjected to the uciating tortures, was executed by the Sept. 11, 1599. Her stepmother Lul her elder brother Giacomo were also to death. Her younger brother Berfe was spared on account of his exuth. When the executioner bound Beatrice said: "You bind my body

Beatrice said: "You bind my body action, but my soul for immortality." to torture she is said to have replied to progation of the judge, "It is true," 'O God, thou knowest if this be true." is there was not a particle of evidence ier. The death of Beatrice sent a horror through Rome. Many of

the most illustrious families had in vain sought the pope to spare her life. Pope Paul V. confiscated the Cenci estates, including the villa, which, under the name of Villa Borghese, has since acquired a world-wide celebrity. More than one life was lost in attempts to rescue Beatrice. Her remains were interred at Montorio in the church of San Pietro. Guido's celebrated portrait, in the Palazzo Barberini at Rome, is said to have been taken immediately before her execution. In Whiteside's "Italy," the true story of Beatrice Cenci is related after the original MSS., which for a long time were preserved with the greatest secrecy, on account of the connection of the Cenci with many of the most influential families of Rome. Muratori's "Annals" constitute another authority, which is frequently referred to on the subject of Beatrice. The French author De Custine dramatized the story, but the greatest work on the subject is Shelley's, who represents Bestrice as implicated in the murder of her father. Mr. Whiteside, however, has fully established the fact that the beautiful girl was sinned against, but no sinner. An English translation of Guerrazzi's novel of "Beatrice Cenci," by Mrs. Watts Sherman, appeared at New York in 1858, simultaneously with one by Signor Monti, of Harvard university, Cambridge.

CENEDA (anc. Conitonee Castrum), a Venetian town of the province of Treviso, on the rivers Meschis and Piare; pop. 5,200. It is the see of a bishopric, and possesses a cathedral, several churches, manufactories of leather, woollens,

and paper, and several mineral springs.

CENIS, Mount, a remarkable mountain at the junction of the Graian with the Cottian Alps. It is an elevated plateau 6,778 feet above the sea-level, with a peak rising to the height of 11,454 feet. On the plateau is a fine lake (La Ramasse), noted for an abundant supply of trout. The mountain lies between the province of Susa in Piedmont and that of Maurienne in Savoy. Over it is one of the most noted Alpine passes. It first appears in history in the times of Pepin. It was over the pass of Cenis that Pepin led the French army (755) against Astolphus, king of the Lombards, in aid of Pope Stephen III., in which service, by the promise of the distressed pope, Pepin earned an inheritance of spiritual rewards for himself and all the French nation. Nearly 1,000 years later Catinat, marshal of France, led his army over this pass, in the wars of Louis XIV. Catinat improved the Cenis pass somewhat, though it was still of difficult transit, and only for nules. In order to facilitate the intercourse across the Alps, Napoleon ordered a road to be laid out and constructed 18 feet wide for a distance of 80 m., so that the pass of Cenis is now less difficult and danger-ous. Napoleon's road leads from Lans-le-Bourg to Susa. It was constructed at a cost of more than 7,000,000 france. There is a toll levied on passengers, to defray the expenses of the



ing incense, used in the celebration of religious rites by the ancient Hebrews, Greeks, and Romans, and still retained in the Catholic church. The Jewish censer appears to have been a sort of chafing-dish, with or without handles, which the high priest carried into the sanctuary or placed on the altar of incense. That used in the Catholic church is a vessel shaped much like a goblet, with a perforated lid, swung by long chains, and carried by an acolyte. Josephus tells us that Solomon made 20,000 golden censers for the temple of Jerusalem.

CENSOR (Lat. censers, to estimate), the title

of Roman magistrates of high dignity and great influence, instituted in the year 442 B. C. The office was vested in 2 persons, originally elected for 5 years, from and by the patrician order; but later changes introduced by the dictator Mamercus, 438 B. C., and afterward, reduced the term of the office to 18 months, without changing the period of election, and made it attainable by plebeians, of whom Rutilius, who had also been the first dictator of that order, was the first elevated to this dignity (350); and in 132, even both censors were plebeians. They had all the ensigns of consular dignity except

exercise over his destiny, and of a periods of his life. He then de religious rites, and matters relation, chronology, and cosmograph has been of considerable value ancient chronology. By it the cof the era of Nabonassar and ot dates have been fixed, and Censor fore been named by Scaliger a tissimus temporum viades. The of his work was that of Bologna last is a German edition, by Gral CENSORSHIP OF THE PRI

tion by which books, pamphle papers are subjected to the excertain civil or ecclesiastical off empowered to authorize or forbid tion. Such a regulation was sugge and an informal censorahip exists of Greece and Rome. Thus all the works of Protagoras was Athens by sentence of the area he had expressed doubts concernence of the gods. Satirical works on magic were often condemned by the Roman emperors, and Dios the sacred books of the Christians.

eir works before publication to the of the higher clergy. The first emince of this kind was that of Autpert, ctine monk, who in 768 sent his on of the Apocalypse" to Pope I., begging him to publish the work it known. The invention of printe increasing number of books called and stricter prescriptions of censorthere still remain copies of books 1479 and 1480 which are accompasolemn approbations and attestations vor. In 1486 Berthold, archbishop issued a mandate forbidding the pubany work in the German language hould be first read and approved by ensors whom he appointed. In 1501 cander VI. addressed a bull to the s of Cologne, Mentz, Treves, and z, according to which no book should without special express license from Finally, in 1515, the council of the ssembled at Rome, decreed that in books should be printed in any town unless they were previously inspected lly examined by the bishop of the his deputy, or by the inquisitor of s or his deputy, or if at Rome by the ir and the master of the sacred palace. rk which was approved was to be ned by the hand of the censor, and ation not thus countersigned was to and its author or editor excommuninus was a general censorship of the summated by the Roman Catholic hich has since been enforced by that countries where it has had the power. c of Prohibited Books" was begun by l of Trent in 1546, and has been from ne republished and enlarged. It has Index of Expurgated Books."-In where the reformation prevailed, the was not abolished. Licensers of e appointed in England, who were st part bishops; and in the reign of complaints were laid before the house ns against Archbishop Laud and his because, as was alleged, it was imo obtain from them permission to book written against popery. A stem of censorship was established ee of the star chamber, dated July which remained in force during the and was confirmed by an act of par-1643. It was against this act that ote his "Areopagitica: a Speech for y of Unlicensed Printing." "Para-'itself was in danger of being supcause the simile of Satan compared ising sun, in the first book, was supcontain a political allusion. Parliaseveral measures against "scandalous, libelous, and unlicensed pamphlets." e council at Whitehall ordered that no ould print any matter of public news gence without leave of the secretary

The licensing system, and with it the censorship of the press, was abolished in England in 1694 in the reign of William and Mary, but the question of its revival was agitated in parliament some time later,—A general censor-ship of the press existed under the old French monarchy. Originally in the hands of the bishops, it passed by degrees to the doctors of the faculty of theology; but this faculty becoming divided into parties on matters of controversy, the chancellor of the kingdom took the censorship from it in 1658. He appointed 4 royal censors with an annual stipend to examine all works without distinction, and no writing could be printed or sold, and no dramatic piece performed, unless approved by one of them. At the outbreak of the revolution the censor-ship was abolished and entire liberty of the press proclaimed, but in the reign of violence which followed there was no safety for obnoxious journals or writers. Napoleon during the consulate limited the freedom of the press to works of a certain size, but subjected newspapers and pamphlets to a strict inspection. By a decree of the council of state in 1810, a complicated system of censorship was revived in France. Even after a book had been examined, approved, and printed, it could be seized by the minister of police and its sale stopped, a memorable instance of which was the destruc-tion of the whole first edition of Madame de Staël's De l'Allemagne. After various modifications of the censorship, Charles X., upon coming to the throne, abolished it altogether, but soon after suspended the liberty of the periodical press. By a law of 1885 the proprietors of political journals are obliged to deposit a considerable sum in the treasury as security for their good behavior. Under the empire of Louis Napoleon the Parisian newspapers are subjected to strict supervision, and if not satisfactorily conducted may be suppressed.—A general censorship of the press is maintained in the absolute monarchy of Russia. In some of the Italian states an ecclesiastical and a political consorship exist together. By the Spanish constitution of 1887 the previous consorship was abolished, and all Spaniards may print their thoughts freely, subject only to the laws. The determination of offences committed by means of the press belongs to juries empanelled for that purpose. In the republics of Switzerland, since 1830, no censorship has existed, but the liberty of the newspaper press is very much restricted by laws. By the constitution of the kingdom of Greece of 1827, the Hellenes have the right of publishing freely their thoughts, abstaining however from violations of decency, from personal calumny, and from attacking the principles of the Christian religion. In Sweden, Norway, the Netherlands, Belgium, and Denmark, no authoritative censorship exists, but upon those who offend through the press penalties of various degrees of severity are imposed. These penalties are most rigorous in Denmark. The liberty of the

There are laws against publications of a scandalously immoral character, but in general the only restraint upon printing or circulating any class of books is found in the public sentiment. CENSUS, a registration of persons and their property, which in some states constitutes their claim to citizenship, or to dignities attainable only by members of certain classes. That the ancient Hebrews and their families were

izen had to appear, and to us name and dwelling, the children, if he had any. property, under the pen confiscated, and of bei 0 a slave. The whole purle v classes, each comprising a n The 1st class consisted worth at least 100 minm, u-75, the 8d of those worth 50, th worth 25, and the 5th of those w the 6th comprehended all the who were exempted from all ter burdens, and were termed Proletarii. As each century to maintain 100 soldiers in its name, not from the number of and as the numbers of ce were 98 in the 1st, 22 in the 22 in the 4th, and 80 in the ! forming but one, was alt evident that the burdens c. particularly upon the rich fore, compensated by a p

numbered by age and sex, we have positive proof in the sacred writings, the enumeration of the people having been enjoined on more than one occasion. The most ancient statistical record extant, derived from an enumeration of the people, is that of Moses in the

wilderness.—According to the constitution of Solon, the citizens of Athens were divided and

registered into 4 classes (τιμηματα, τελη), according to the amount of their taxable property, that is to say, of their income. The 1st consisted of the Pentacosiomedimni, or persons having a revenue of 500 medimni of

grain, or as many measures of oil; the 2d and 3d classes, *Hippeis*, or knights, and *Zeugita*,

comprised the citizens next in wealth; and the 4th, that of the Thetes, included all whose incu fell of 900 medium; Only these

in the Comitia Centuria magistrates were electe

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tions were modified and overthrown, and but gradually restored, may be regarded as an im-Portant basis in the great structure of the Roman power, with an expiatory sacrifice of a bull a ram, and a hog, which were first led 8 times around the Campus Martius. This ceremony, continued in the similar Suovetaurilia, was regarded as a purification of the city, or bustrum, which gave the name to the quinquennial period elapsing between one census and another. Subsequently the kings, the consuls, and then the censors presided over the taking of the census, imitating the ceremonies observed by Servius Tullius.—It is mentioned in the Royal Commentaries" of Peru, by Garcilasso de la Vega (b. vi. ch. 8), that the records of the census by that ingenious people were Preserved and illustrated by a fringe work of strings of various sizes, number of strands and colors, knotted "like the girdle of St. Thomas," by which they could express "the greatest number at which arithmetic could arrive; " and In this manner they described the several castes of population, and their enumeration by age and sex, with a classification, first, those of the age of 70 and upward, then those of 50, "then those by 10 to 10 down to sucking children." In this way they preserved the record of their married and widowed men and women by age and sex, and in like manner they are represented as taking annually and preserving an account of the warriors of different orders and the agricultural productions and wealth of the people. According to Herrera, the Mexicans were but little if at all behind the Peruvians in their means of understanding the condition of the people by means of the census.—There exists no official record of the population of England previous to the commencement of the present century. The first census of Great Britain was taken in 1801, and the first enumeration of the population of Ireland was made in 1813; but so imperfectly was the work accomplished that statists place but little confidence in the correctness of the returns, and the first census upon which they place any great reliance is that of 1821. The census of Great Britain and Ireland is taken every 10 years, and includes the general statistics of population. Attempts have been frequently made to induce the British parliament to enact the necessary law for obtaining the general statistics of the kingdom, but they have been frustrated in the belief that such investigations would be distasteful to the people. England also gives particular attention to the register of births, marriages, and deaths, and has established a bureau of statistics, which publishes annual reports of great value on the movements of the population.-It is claimed by French writers, that a census was taken during the reign of Charles IX in the 16th century, but no traces of this work are to be found in the French archives, although they profess to give the results. The first census of which the records are extant was taken in 1700, the results

of which were published in 1720. The population of France, by what they claim as their first census, was set down at 20,000,000, whereas by that of 1700, when their territorial extent was much increased, it fell short of that by \(\frac{1}{4} \) a million. The census of 1720 was designed to be very thorough for that early period, and revealed pretty clearly the judicial, military, and ecclesiastical condition of the kingdom, and developed many important facts respecting agriculture, manufactures, and commerce, and the physical features of the country. The next census of France was made in 1762, under Louis XV. The minister Necker and the statist Moheau both throw doubts upon the accuracy of its statements. A general census was taken in 1800, another in 1805. A royal ordinance in 1822 provided for a general census every 5 years; but in place of an actual enumeration which should have been made in 1826, the number of inhabitants was declared by simply adding to the population of 1822 the excess of births over deaths for the intermediate time, and the result was by royal ordinance declared authentic; a convenient method of avoiding, when it seemed politic, unpalatable revelations. From the time of this intermission the census has been taken with regularity and care. In France the parish or commune sends its report to the chief place of the canton, the canton to the head of its department, who forwards it to the minister of the interior, where are collected the reports of the 86 principal divisions, the 863 districts, the 2,847 cantons, and finally the 86,819 communes, villages, &c. The population is returned by ages, sexes, professions or trades.—In Prussia, statistical investigations have been pursued by the government since the days of Frederic the Great, and the statistical bureau was established in 1816, which has the control of the census, which occurs every 8 years, when the population is registered by age and sex, with the principal domestic animals, schools, and industrial establishments subject to taxation. In this work the principal states of Germany have recently united, and under the charge of Dieterici, the distinguished whief of the statistical bureau at Berlin, there have been prepared and published the statistics of the 89 allied states. -In Sweden, the science of statistics has been more particularly cultivated than in any other country, and the frequent enumeration of the inhabitants has been pursued for near a century with great care. In Sweden originated the earliest mortality tables which are used at the present day.—In Russia, the census was organized in 1723 by Peter the Great, who established during the previous year the general registration of births, marriages, and deaths. It was at that time ordained that the census should be renewed every 20 years. From the early institution of these investigations, and the particular manner with which they have been conducted, we are possessed of a knowledge of the movements of the Russian population for more than a century. The magnitude



its president the distinguished Quetelet, and was composed of 15 persons eminent for their knowledge in the several specialities to which their attention was severally directed As might be inferred, the result of their efforts has been the most perfect work on the population and resources of a government ever published in Europe.—The census of the United States presents the unusual fact of being instituted with the constitution of the government, the 1st article of which prescribes a general enumeration of the people within 8 years after the 1st meeting of congress, and within every subsequent term of 10 years thereafter. The agents employed to ascertain and report the elementary facts are the marshals of the several states and territories, who are the only officers connected with police affairs known to the general government. The first census of the United States recorded the names of heads of families, enumerated the free white males of 16 years and upward, the same under 16, gave the number of females, and the number of slaves. The 2d and 3d census distinguished the sexes and colors of free persons, classifying the free males under 10 years of age, those from 10 to 16, 16 to 26,

posed of the secretary of stat eral, and postmaster-general, w to make all preliminary arrang vide the necessary schedules, powhich of consequence involved census. This board was org 1849, and its plan was not on congress for that census, but I plicable to those to be taken the adoption of an amendment Vinton of Ohio, the ratio of re-established in advance and for law. The census, which had under the direction of the se was transferred to the depart terior, and Mr. J. O. G. Ker acted as secretary of the census pointed to its direction. It is I 7th census of the United St thorough ever made in any schedules, to the preparation attention was bestowed, were plan of great simplicity and con numbering the houses, specify recording the name, sex, a profession, or occupation of en

person who died within the year previous to the ay of enumeration. The statistics of agriculture **embrace** the number of acres of land improved and uncultivated, its value, with that of the im-Plements and machinery, the number, variety, and value of the live stock, with a full account of all the productions of the field; the value of estate, real and personal; the taxes, number of colleges, academies, and schools, with the number of teachers and pupils, and the revenues; also the statistics of churches, public libraries, and newspapers; those of mines, manufactures, and fisheries were included, so as to give the capital invested, the quantity, kind, and value of raw materials used; the motive power, number of hands of each sex employed, with their wages, and the various products, in quantity, kind, and value. A digest of these statistics is now being compiled under a recent law of congress. Other details have for the most part been published.—From what has been written on this subject, it will be perceived that the census of each country differs essentially in details and in the times when taken, so that it is almost impracticable to institute comparisons between different nations as to the increase of population and the progress of the industrial arts. To remedy, if possible, these differences, and examine into the Plans of the European censuses, Mr. Kennedy was sent to Europe in 1851, and after a conference with many of the most eminent statists abroad, all of whom readily admitted the im-Portance of a more harmonious action in national investigations of so much interest, it was resolved to hold a congress of statists of all nations at Brussels. Three conventions of this nature have already been held at Brussels, Paris, and Vienna, and it is hoped that something important may result from the deliberations of such conferences.-Independent of the federal census, a majority of the states, either in their constitutions or by act of legislature, have made provision for an enumeration of their population respectively. That of Massachusetts is taken in the same years with that of the United States, and as much oftener as the legislature may direct. It is very general and thorough in its investigations. That of New York, embracing population, agriculture, and manufactures, is made decennially at intermediate periods, affording an enumeration each 5 years; so with Illinois, Wisconsin, and Flori-The census of Ohio, Missouri, and Arkansas is taken once in 4 years; Indiana and Alabama, 6; Michigan, South Carolina, and Tennessee, 10; Iowa, 2; Georgia, 7; Texas, 8; Mississippi, irregularly. Virginia, by her new constitution, has provided for a decennial census intermediate with that of the United States, while no provision for a periodical census has been made by the states of Maine, New Hamp-shire, Vermont, Rhode Island, Connecticut, Pennsylvania, New Jersey, Delaware, Maryland, North Carolina, and Kentucky.

CENT (a contraction of the Latin word centum, a hundred), a United States coin of the

value of the $r_{0,\overline{0}}^{1}$ of a dollar, first made of copper under act of congress, 1787, in New Haven. The same year Massachusetts authorized the making of coins of the same value, which was done the next year. The cent with the symbolical head and the inscription of "Liberty" was ordered by congress in 1792, and first coined in 1793. In 1857 a coin composed of 88 parts copper and 12 parts nickel was issued, which, being of smaller size than the old cent and equal in reliable is desired to replace it.

in value, is designed to replace it.
CENTAURS, a mythological race of creatures, half man, half horse, and, in addition to this, semi-divine, who were believed especially to inhabit the passes of Mts. Pelion and Ossa. and the great plains of the Thessaliotis and Pelas-giotis, in upper Greece. They are mentioned 8 times in the Iliad, twice under the appellation dapes, which is merely the Æolic form of the common Greek word Apper (wild beasts); under which appellation, with the addition of the epithet heros, godlike or divine, they are also spoken of by Pindar, and once under their appropriate name Kerraupoi. They are also mentioned by name, as centaurs, in the Odyssey. It does not distinctly appear whether, by the writer of the Homeric poems, the centaurs were understood or intended to be received as semi-human, semi-ferine animals, no allusion being made directly to their form or attributes; but the use of the word $\phi\eta\rho$, wild beast, as applied to them, which never, so far as is known, is used by any classic writer in speaking of a human being, would seem to be conclusive. The legend concerning the origin of the centaurs is twofold. Ixion being, in consequence of an atrocious crime, in the murder of his father-in-law, Deioneus, refused all intercourse or fellowship with mankind, Jupiter invited him in mere compassion to reside on Olympus. Incapable of gratitude, however, and forgetful of all rules of hospitality, he at once attempted to seduce the wife of his entertainer, Juno. By a concerted plan, however, of the god and goddess, a cloud woman, formed into Juno's semblance and vivified for the time, was substituted for her, and the intrigue proceeded, until the seducer, boasting of his success with the immortals, was bound on an everrevolving wheel in the abyss of Tartarus, while the cloud became the mother of the centaurs; or, according to the myth as given by Pindar, of a son of human form called Centaurus, who, wandering wild about the roots of Mt. Pelion, fell in with the Magnesian mares, from his association with which arose the semi-human race of centaurs. As to form, these beings were represented in sculpture as horses, perfect in all respects below and behind the withers and the chest; there, at the insertion of the neck, began a human body, the hip joints articulating into the shoulders of the lower animal, and the abdomen of the man uniting at the perincum with the chest of the horse. Above this the human conformation was perfect, with the erect bearing, chest, shoulders, arms, neck, and head of a

medical powers, and said to cure not only fevers, but also the plague, and the worst ulcers,

but is now in no repute among physicians. CENTENARIUS, an officer in the armies of

men. Also, the person who conducted the administration of justice in a village.

CENTIARE, a French measure, the 120 part of an are, which see.

CENTIGRADE SCALE, or the CENTESIMAL, is the division into 100 parts, named grades or degrees, adopted particularly for the French thermometer. It was introduced in 1742 by

Celsius, professor at Upsal, the limits of the division into 100° being the boiling and freezing points of water, though the scale was made to extend to convenient lengths below and above these points. In Fahrenheit's scale, the freezing point being 32° and the boiling point 212°, 180° include the same range as 100° of the centigrade thermometer. The proportion of one degree of Fahrenheit to one of the centigrade is hence as 5 is to 9. But as the zero point of the Fahrenheit thermometer is 82° below the freezing point, which is the zero point of the centigrade, this number m be added to the

inding de ee on

results obtained as the cor

the 2 maxilles and lower lip of may be regarded as maxillary tennes are 2, varying greatly i length, and number of joints of vision are usually formed by the middle ages who had the command of 100 simple eyes, but in some ther compound eyes of insects, wi All myriapods are wingless. Uz this class the number of the

feet belonging to them, age; from the fact that s without feet, Latreille go a true metamorph states of larva, pupa, in them any more than u ous insects. The organs . of 2 principal p llel trach into which the a seem to approx on one hand, suu to They generally avoid two themselves under

trees, in old tinn some live in fruits, and many feed on de-Latreille divid stances. orders: 1. **i**Zo 1

the labium is quadrifid, and its 2 lateral s, the largest, are transversely ringed, emble the membranous feet of caterpiley have beside 2 palpi or little feet, it the base and unguiculated at the end econd labium formed by a second pair terminated by a strong movable hook at the end for the issue of an acrid The body is membranous and flattened, ig being covered by a coriaceous plate, ing for the most part but one pair of s terminal segment being elongated into of tail; the sexual organs are interior, ced at the posterior extremity of the The centipedes move very rapidly in an ing manner; they can walk backward, ilv the 4 hind legs, which in ordinary

n are dragged after them; they avoid , and are carnivorous in their habits: much dreaded by the inhabitants of limates, where they attain a large size, capable of inflicting dangerous wounds d that their bite, though more painful of the scorpion, is never fatal; the species of Europe (lithobius forficatus, very abundant under stones in the sumnn, is quite harmless, though repulsive pect. The genus scutigera (Lam.) has ly covered with 8 plates, 15 pairs of

d large reticulated eyes; they are noc-1 their habits, and pierce their insect th their mouth-hooks, producing almost death; according to Illiger, they are by the inhabitants of Hungary. The olopendra (Leach) has 21 pairs of legs, 1 the basal joints of the terminal legs are vith spines; the segments are nearly of and number above and below. The

uta (Latr.) of southern Europe is almost as some of the species of tropical Several species of South America West Indies have doubtless been conunder the S. morsitans (Linn.), one of rows to the length of a foot; very large also occur in Asia, Africa, and the rchipelago. Ammonia is the best ap-t to their bites. Though among the gusting of living creatures, Humboldt his "Personal Narrative." "I have seen children, of the tribe of the Chaymas, t from the earth and eat millepedes or dræ, 18 inches long and 7 lines broad." genus crytops, Dr. Leach mentions 2 found in the vicinity of London; the very small, the antennæ are grained, basal joint of the more slender hind rithout spines. In the genus geophilus the antenno have only 14 joints, but s vary in number from 42 to nearly ey are very slender, and some are phosent; they are destructive to fruit and es.—The position of the myriapoda can e said to be determined. Siebold says not properly belong either to arachnida a, and he classes them under crustacea. Jones observes that they differ from

crustaces by their respiring air by means of trachese, and from annelids by their jointed legs, and that they seem to be an osculant group, allied to annelids, insects, arachnids, and crustacea; they have urinary organs like insects, which crustacea have not. Prof. Agassiz makes them the lowest order of the class of insects, the other orders being arachnids and insects proper. Mr. Newport ("Annals and Magazine of Natural History," vol. xii., 1848, p. 228) traces the nervous system from the highest chilognatha, the most perfect of which are connected on the one hand with crustacea, and on the other with true insects, through the geophili (the lowest vermiform type of the chilopoda), to the tailed aracknida (the scorpions), and through scolopendra, lithobius, and scutigera, the last of which connects the myriapoda on the one hand with true insects, and on the other with arachnida. The heart, or dorsal vessel, as in insects and arachnida, is divided into several compartmenta corresponding in number to the abdominal segments.

CENT JOURS, the second period of Napoleon's reign, so called because it lasted precisely 100 days, from March 20, 1815, when he reentered Paris on his return from Elba, to June 28 of the same year, when the second restora-tion was established. (See BONAPARTE.)

CENTLIVRE, Susanna Freeman, an English dramatic authoress, born in Lincolnshire, in 1667, died in London, Dec. 1, 1728. Early an orphan, and maltreated by those to whom her education was confided, she fled from school while very young, intending to go to London. While travelling on foot it is related that she fell in with a Cambridge student, who persuaded her to accompany him to Cambridge, where she assumed masculine attire, and studied several months. To save her friend from suspicion she went from Cambridge to London, where nothing is known of her till at the age of 16 years she married a nephew of Sir Stephen Fox. Soon losing her first and also her second husband, who was named Carrol, she devoted herself to poetry, and produced a tragedy and several comedic She also engaged as an actress, and while per-forming before the court at Windsor attracted the attention of a young man who was chief cook to Queen Anne, named Centlivre, to whom she was soon after married. From this time she lived in intimacy with Steele, Rowe, Farquhar, and other literary men, but incurred the enmity of Pope, by whom she was unjustly characterized in the first editions of the "Dunciad." Her comedies are esteemed for the ingenuity of the plots and the vivacity of the dialogue. The best of them are the "Busy-Body," the "Bold Stroke for a Wife," and the "Wonder, a Woman keeps a Secret."

OENTO (Lat. cento, patch-work), a poem composed wholly of verses taken from one or more poets, but disposed in a new order so as to form a distinct work. The only classical example is the Cento Nuptialis of Ansonius.

bolas). CENTRAL HEAT. Since the year 1740, when the first observations respecting the increase of heat encountered with the increased depth below the surface were made by M. Gensanne in the lead mines of Geromagny on the upper Rhine, abundant data have been collected by scientific men in various parts of the world, establishing this as a general fact. The deepest mines of Mexico, England, France, Germany, and other countries, and the deeper artesian wells, and the hot springs ascending from still deeper sources, all lead to this conclusion. The volcanic fires add their testimony to the existence of intensely heated masses beneath the crust of the earth, and the vast extent of surface agitated when they are suppressed, and relieved by their outlet, seems to indicate an almost general diffusion of the liquid molten masses from which they spring. Not only is the heat found generally to increase with the

depth, but the rate of this increase has in many

instances been determined. It is found to vary in

different countries, in some increasing 2 or 8 times more rapidly than in others. The average rate is estimated by Kupffer at 1° F. for every

by radiation of heat, the central have begun to cool and consolidat the central portion fluid, tides ceived in the mass, sufficient to face to rise and fall every 6 hour fluctuations are observed, even i that of Stromboli, which is sup nect with the great central of The phenomena that have given hypothesis combated by these perhaps require this theory to them. Local heat is without erated by chemical changes takin the materials beneath the surfac rise to electrical currents, of which to disturb the surface we idea, but judging from their illimited scale on which they come servation, it would seem quite as 1 refer to them the phenomena o volcanic outbreaks and earth an aid so entirely hypothetic molten fluidity of the central globe.

globe ever passed from a liquid

CENTRE, in general, a point

a central county of Pennsylvania; 000 sq. m.; pop. in 1850, 28,855. l by the Alleghany, Bald Eagle, and · mountain ranges. It is drained of small creeks, which supply sev-l factories with water power. The ent in the valleys, and agriculture rd state. The mountains are covaluable timber, but furnish little for cultivation. There are extenf iron, quarries of limestone, and coal in several places. The agriuctions in 1850 amounted to 488,f wheat, 316,112 of corn, 186,204 of tons of hay, and 414,715 lbs. of re were 48 churches, and 4,517 public schools. The county was or-100, and named from its position. fonte.

UGAL FORCE. The tendency ly moving in a curved path has he curve, has received the ill-chocentrifugal force; ill-chosen, since idency to fly from the centre, but ontinue moving in the direction s at any particular moment. A l in a sling flies off at right angles at the moment of its release. entrifugal force is sometimes manithe body is restrained from movent, and only allowed to slide on intrifugal force, in this sense, is a mechanical power, of great pracich operations as draining washed ning the oil from steel pens; since, ition of such articles in a network orce can be communicated to the ticles of fluid very far exceeding ty, without injury to the fibre or solid articles.

ETAL FORCE, a central force of hat is, a force tending, like that of ove a body to a fixed centre.

VIRI, in Roman antiquity, a coles, who decided civil cases, and ating to the rights of family and This court was instituted, according, as early as the time of Servius as its number was ordinarily about ed the name of the tribunal of the It was divided into 4 sections or ore 2 or the whole number of might be pleaded. This tribunal reatest importance under the emse entirely suppressed by Theodo-95.

ES OF MAGDEBURG, a volury of the church, and the first ork of the kind; so called from the ngement adopted, which was to tory in periods of 100 years each. n in Latin, and published in Basel, 18 vols. folio, bringing the history 14th century. The originator of the Centuries" was Matthias Flacius, pponent of the Interim, and so of Melanchthon. The first 4 centuries were composed at Magdeburg (whence the name); the 5th, begun at Magdeburg, was finished at Jena; the 6th was written while the authors were secreted from persecution; the 7th in Mecklen-burg, and the remaining 6 in the city of Wismar. The publication was attended with much labor, from the comprehensiveness and complication of the plan. Of its execution Eichhorn, the celebrated German orientalist and theologian, speaks favorably. Each century is treated under 16 heads, viz.: general historical view, extent and propagation of the church. persecutions, doctrines, heresies, rites and ceremonies, government, schisms, councils, biogra-phies, heretics, martyrs, miracles, condition of the Jews, other religions, political condition of the world. The authors are called centuriatores. A new edition by Baumgarten and Semler (Nuremberg, 6 vols. 4to., 1757-'65), brings down the work only to the year 500, and an abridgment by Osiander continues it to the 17th century (16 vols, 4to., Tubingen, 1607-'8). The principal writers, beside Flacius, were Wigand, Judex, Faber, Corvinus, and Holzhuter.

CENTURION, an officer of the Roman army, in some respects corresponding to the rank of the modern captain. His command was the military division called a century, centuria, which corresponded with the civil division called a curia, so that the rank of centurio in the army was equivalent to that of curio in the state. It is supposed by Niebuhr, and other writers of the first authority, that the original century consisted of 30 men, and the great scholar first named is of opinion that the influence of the favored number, 30, can be traced throughout the whole of the ancient array of the Roman army. In later times the legion of heavy armed foot, hastati, principes, and triarii, without including the velites, or light-armed skirmishers, consisted of 80 maniples, each of which contained 2 centuries. In the time of Æmilius Paulus and Scipio, the strength of the legion when at its full war complement was 6,000 men, each century of course containing 100, each maniple 200, and each cohort—a later division of 3 maniples, variously attributed to Marius, Sylla, and Julius Cæsar—600 men. The centurion who commanded the right century of the maniple, was styled properly centurio; he who commanded the left, sub-centurio, optio, or uragus. CENTURY, in Roman antiquity, a company

CENTURY, in Roman antiquity, a company of 100 men, forming the 6th part of a cobort, and the 60th part of a legion. Servius Tullius carried this military division into the civil organization, and divided the Roman people into 6 classes according to property, which were subdivided into 195 centuries. To each of these centuries belonged a voice in the comitia centuriata; but as the first or most wealthy class of citizens comprised 98 of the centuries, it had a preponderance in the government. Each century was divided into 2 sections, that of the seniores, consisting of citizens from 45 to 60

may be properly given, since only as means of locomotion b 70,481: The country is rugged and mountainous, particularly in the N. part, and the Black mountain, as the Mount Ænos of antiquity is now called, constitutes the most picturesque feature of Cephalonia. The climate is usually mild. The soil produces little corn, but some wine, oil, honey, and all the fruits of southern Europe. Currants, the staple product of the Ionian islands, come chiefly from Cephalonia. The blight of 1853–'55 has injured the crops materially, and reduced the exports from 40,000,000 to 11,000,000 lbs. The total value of currants received in the United States during the year ending June 30, 1856, was \$127,-089, and in 1857, \$151,418. The large share which Cephalonia bears in the currant trade may be gathered from the fact that of 5,570,331 lbs. exported to England in 1855, 4,868,400 lbs. were from that island. The harbor is excellent, and ship building and various other branches of trade and industry are carried on actively. The imports consist nautilus, the argonaut, the mainly of breadstuffs and of the manufactures known sepia or cuttle-fish. and wares of Europe. There are 11 public schools in the island, and 78 private schools.

The Greek church is the predominant religion,

tants are chiefly Greeks Property

and the inh

hold upon any object. The a furnished with eyes and org The mouth, which is situated the circle of feelers, is furnished horny jaws, in shape resembling parrot. The tongue is rough Being aquatic, the cephalopoda gills. Most of this class posses sembling shells, though only t argonaut are entirely covere Their arms are supplied with st they fasten themselves to and mals much larger and better themselves. Even the firm o sters and crabs cannot defend from their soft-limbed oppone means of their suckers fasten shell, and with their strong bepieces. To the class cophalon species, being entirely unprotect furnished with a bag o fluid. When attacked, as

tion and so tinoes the wa

er he came with brilliant presents , and Procris did not withstand the ubsequently diverted him from his e discovery of their mutual weak-

a reconciliation between them. terward slew his wife with his aking her for a wild animal, jealously watching him in the ording to Ovid, Cephalus finally id gave his name to the island

IA, a village of Greece, 9 m. N. s, with a grotto dedicated to the nuch resorted to by devotees.

IA, or Melas (anc. Cephissus), a osses the N. boundary of Bœotia; ike Copais.

US, the name of several rivers in sec. The most famous of them was vo streams which flowed by Athens. se N. of the city, flowed southward arnes across the long walls, and the Phaleric bay. Modern travbe it as winding its way through in several streamlets.

HI, GIUSEPPE, an Italian sculp-Rome in 1760, died Feb. 1801. active part in the disturbances of ates, and was obliged to seek refuge He there joined a band of repubwho cherished a violent hatred oleon, and at length made an athis life. The plot was formed nn of 1800, and the fatal deed was litted Oct. 11, at the opera. The were betrayed by one of their number of the state of the eapons seized, and Ceracchi with Diana and 4 others arrested, and

and somewhat intricate trial, con-

l all but Diana executed.

CEIRAM, SIRANG, or ZERAM, the ize of the Molucca islands, in the pelago, lying N. of Amboyna, beloo on the W. and Papua on the E.; 3° 50' S.; long. 127° 51' to 181° 56' stimated at 10,500 sq. m.; pop. at s topography is imperfectly known, ral character of the surface is hilly, ntain ranges, from 6,000 to 8,000 versing the island, and giving rise of streams which empty principal-coast. The loftiest peak is that of ,750 ft. above the sea. The climate s, vegetation is luxuriant, and the clove were produced spontaneousirpated by the Dutch in the 17th he sago palm here reaches the ight of 100 ft., and a single tree ields 1,200 pounds of starch. Many noble forest trees are found, but le for ship building. The coasts by a hardy, enterprising Malay bsist chiefly by fishing, and find a he produce of their toil at Singapore ida islands. Their vessels, called

prahus or kora-kora, are manned by from 30 to 60 rowers each. Most of these people are Mohammedans, but Christian missionaries have made many converts among them; and in one village of 620 souls, visited by Mr. Scherius in 1846, the Christians numbered 438. The Horaforas, or Alfoories, who appear to be identical with the mountaineers of Celebes and the Philippines, are the dominant tribe of the interior. They are described as a brave, honest, and in most respects peaceable race of idolaters, among whom Christianity has made some conquests. A custom once prevalent among them of collecting human skulls for ornaments, to obtain which they would not hesitate to immolate a living victim, is apparently becoming obsolete. A little maize, for domestic consumption or exchange for dress, firearms, and fer-mented liquors, is cultivated chiefly by women; while the men are engaged in war or hunting. The Horaforas of Ceram have prominent features, large eyes, and long frizzled hair; they are brave, faithful, obedient, and make good soldiers. The other inhabitants are governed by several chiefs, who are subject to the Dutch residents at Amboyna and Banda. The native princes meet the Dutch residents once in 2 years, and have their disputes adjusted by a court of 24 rajahs, at which the resident presides. The population has been thinned by the internal dissensions of the Malays, the attacks of the Horaforas and of pirates, and the rava-ges of the small-pox. The Dutch claim the sovereignty of the island, and have established several forts on it. On the N. E. coast are the bay and village of Waroo, where good anchor-age, water, and provisions may be had. CERASIN, the gummy matter that remains,

when the viscid exudation from the cherry, plum, and some other fruit trees is digested in water. The portion which dissolves is supposed to be the same substance as arabin. Cerasin is a tasteless substance, insoluble in water and alcohol, and unfermentable. It differs from bassorin in its being changed by the action of boiling water into arabin. The substance is applied to no use.-Also the name of a peculiar kind of wax which is found coating the sugar-

CERATE (Lat. ceratum, from cera, wax), an ointment of stiff consistence, compounded of oil or spermaceti and wax, sometimes thickened

with a powder.

CERBERUS, in Greek mythology, the monster that guarded the entrance to the infernal regions. He was a son of Typhon and Echidna, and is represented as a dog with many heads, the tail of a serpent, and a mane composed of the anterior extremities of numberless snakes. His business was to admit the spirits of the dead into their subterranean abode, but not to let them out again. Orpheus lulled him to sleep with his lyre, and Hercules dragged him from Hades, and exhibited him to the eyes of wondering mortals.

CERCADO, a province of Peru, in the de-

born in the Isle of France in 1737, died there, May 2, 1810. Under the direction of the French government he greatly extended the culture of spices in the Isle of France (now Celeus. Mauritius), when that island was a French dependency. The agricultural society of Paris published his essay on the culture of rice, and awarded him a medal; and Napoleon confirmed him in his position as director of the botanical garden of the Isle of France, and conferred on him a pension of \$120. A tree of the island has been called after him, Cerea.-HORTENSE, his youngest daughter, has translated several novels from English into French, and written a

tragedy and sacred poetry.
CEREAL GRASSES, those grasses which produce the bread corns, as wheat, oats, barley, rice, rye, and maize; these having been called the gift of Ceres. CEREALIA, a festival celebrated at Rome

every April in honor of Ceres, if the citizens present at it. On the occasion of this festival

were not in mourning for some public calamity. If they were, its celebration was omitted, because no person wearing mourning could be

the wanderings of the goddess in search of her

to make up for the loss, she b favors upon Triptolemus. the Ceres then c and appeared in her real co ing the people of Eleusia, at the build her an altar and a temp was presently raised in the vici

the sorrowing Ceres took up h the mean time, the i vine mother had visiteu to entreat Ceres to suffer twe

famine. Jupiter therefore to bring forth her fruits, and . prevail on her to return to Ol neither request would she o dition that her daughter Pro first restored to her. All of Olympus were the same mission, but

at length that it was my determination, sent Mercur. of Pluto that he would return to the earth . . . The king of Hades at a request, but while annu that she was at liberty to a

egions of darkness with your husband, other two-thirds you will be privileged on earth with me. The wrath of the was now appeased. She caused the yield her fruits in abundance as of e instructed the Eleusinian sovereign nobles in the mysteries of her worship; en Jupiter sent Rhea to invite her once) Olympus, she cordially accepted the on, and went thither with her daughter up her abode again among the immorhe chief seats of the worship of Ceres, Rome, were Attica, Arcadia, and Sicily, she was adored under the name of De-The principal sacrifices offered on her ere swine, the symbols of fertility, oxen, oney, cakes, and fruits. Her image re that of Hera or Juno in its maternal er, but expressed more mildness and

She was represented sometimes in a attitude, sometimes walking, and someding in a chariot drawn by horses or Her attire was always complete, and head she generally wore a garland of a band of ribbon; while in her hand lasceptre, a bunch of corn, or a head y, and occasionally a torch or mystic The principal festivals of the goddess

e Thesmophoria and Eleusinia in Greece,

Cerealia at Rome.

ET, a French town and arrondissement partment of Pyrénées-Orientales. Pop. arrondissement in 1856, 42,181, and town, 3,488. The latter is surroundhigh tower-flanked walls, and is sit-6 m. from Perpignan, near the right the river Tech, which is crossed by high bridge—a bold structure of a sinand resting on two rocks. This fountain of white marble, and a pleasund, are the only fine sights of the hich is ill-built, with narrow and badstreets. Its chief industrial products s, leather, and copper ware. The agriproduce of the arrondissement is hardient for local wants, but there are variworks, a good nail manufactory, and her industrial establishments. place where the Spanish and French entiaries met, from March 22, 1659, to l, 1660, to fix the boundaries of the two The French were defeated here by s, April 20, 1793; and on April 29 and 80 ollowing year, Gen. Dugommier, with 00 men, carried the bridge and the adgorges, which were defended by 10,-

EUS, the name given to several species is. The most beautiful of them is the ooming cereus (cactus grandiflorus, native of parts of South America and st India islands, and cultivated for its eautiful, sweet-scented flowers, which o open in the evening and are quite The petals are white, efore morning. calyx of golden yellow within, encircling a vast number of recurved stamens, and opening to a diameter of nearly 1 foot. During the few hours of its existence the flower perfumes the air to a considerable distance and is of unrivalled beauty.

CERIGNOLA, a well-built and agreeably situated town of Naples, on a rising ground in the province of Capitanata, 24 m. S. E. of Foggia; pop. 10,500. The inhabitants are engaged principally in the cultivation of almonds and cotton, and also in linen manufactures. 1508 (April 28) the Spaniards, commanded by Gonzalvo de Cordova, here defeated the French under the command of the duke of Nemours, who lost his life in the battle. In the principal street of Cerignola is a milliarium, recording that Trajan laid out the road from Beneventum to Brundusium at his own cost.

OERIGO (anc. Cythera), the southernmost of the Ionian islands, between lat. 86° 8' and 86° 22' N., and traversed nearly through its centre by the meridian of 28° E. long., at a distance of 150 m. from Zante, S. E. and at the entrance of the Laconian gulf. Its length from N. to S. is nearly 20 m., and its greatest breadth about 12. Area, 116 sq. m.; pop. in 1856, 11,868. The shores are abrupt and dangerous to shipping. Storms are frequent, the currents round the island being from its peculiar position very strong, and the air is rarely quite calm. The island is hilly, and abounds with streams. Although the soil is fertile in various parts, it has been little cultivated, but contains more pasture land and rears more cattle than any other Ionian island. Goats and sheep ard also reared. Some corn and wine are raised, and about 7,000 cwt. of currents. The olive oil produced is of good quality, but limited in quantity. The most famous production of Cerigo is honey. The inhabitants still deserve the character of industry assigned by Hera-clides Ponticus to the people of Cythera, many of the peasants of Cerigo resorting annually to the Morea and to Asia Minor to work there during harvest time. Cerigo is the place of banishment of the criminals of the other Ionian islands. and no longer wears the charming aspect which once made it the favorite island of the goddess Venus. It presents, however, vestiges of its former splendor, and contains 2 curious natural caverns, which possess some stalactites of singular beauty. According to Pliny, the island was once called Porphyrse. The ancient name of Cythera, however, is as old as Homer. Cerigo contains an English garrison, which is usually relieved every 6 months, has 2 towns and 29 villages, sends one member to the Ionian legislative assembly, and, together with Ithaca and Pasco, one to the senate. The chief town is Capsali, at the S. extremity of the island.—The principal dependency of Cerigo is a little island called Camporro by the Italians (anc. Agilia), now known as Lius to the inhabitants, lying about 20 m. to the S. E., mid-way between Cerigo and Crete, and contain-ing about 40 families. Length, 5 m.; breadth,

man agam, the Onrist or Divine withdrew. cote, or rural asylum, for the traattached no importance in the redemptive tute and vagrant children who, th demned as criminals, have shown plan to the death of Jesus, but made salvation pensities. This asylum owes its to depend on legal obedience. Caius, an anti-Montanistic writer, attempts to fasten upon benevolence of a few gentlemen borhood, who in 1847 formed Cerinthus the grossest and most sensual millennianism, and even accuses him of having interraised a suitable foundation fund polated the Apocalypse to make it suit his piece of waste land were hired, wh chiliastic doctrines. It is true that Cerinthus ber of the society, on the paymer taught the coming of a millennium on the earth, per annum, was entitled to send when Christ was to make Jerusalem the centre neglected child when the consent could be obtained. Secondary, religious instruction, agriculture of his vast empire. This time he supposed would come after the earth had stood 6,000 years, and would be a perpetual sabbath of 1,000 years, a view which was common among the Jews of that age, and which has more or less perpetuated itself to the present day in was relied on as the great means o but as it was not a penal school, tem was carried out to a much than at Mettray and other simil Christian faith. His disciples were called Ce-The number of children was lin rinthians, also Merinthians. A Historia Cerinorder that the personal and perthi was published by Paulus in Jena, in 1799. CERITO, Francesca, commonly called Fanny, a celebrated danseuse, born in Naples in 1823, of the director might be felt by e director, M. Zweifel, was brong school of Fellenberg and Jacob boys are instructed for 2 h

evening, in the various stu

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condition and wants. Dura

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is the daughter of an officer who served in the Neapolitan army under Murat. She made her debut at the San Carlo theatre in 1836, and, although only 13, was received with great enthusiasm. At Milan, in 1838, and for 2 years at the

knee, which he is allowed to dispose of for his wan benefit. Great pains are taken to avoid way thing like display or grandeur in the buildings, the apparatus or furniture of the es-tablishment, or the dress of its inmates. The tablishment, or the dress of its inmates. design is to fit and adapt the boys for an intellicont peasant life. The director, though a man of superior education and talent, had in 1858 a malary of only \$250 per annum. The results attained by this establishment have been most natisfactory. Of 41 boys who had been discharged in 1858, and apprenticed or placed with small farmers, only 2 had turned out ill, and one of these was a young man admitted at the age of 16, whose vicious habits were too firmly tablished to be readily eradicated.

OERRETO, a well-built town of Naples, pro-▼ince of Terra di Lavoro, on the Apennines, 21 N. W. of Benevento; pop. 5,600. It has a thedral, a collegiate church, and a diocesan chool, 5 annual fairs, and cloth manufactories: Le occupies the site of the Cernetum of the Romans, near which Pyrrhus was defeated, 275 B. C.

CERRO GORDO, a mountain pass in Mexico, on the national highway between Vera Cruz and the city of Mexico, rendered famous by the victory gained by the American forces, under Gen. Scott, over the Mexicans under Santa Anna, April 18, 1847. The calcada, or paved portion of the national road to the city of Mexico, extends from Vera Cruz N. to the city of Jalapa, ●ome 70 m., crossing, half way, the stone bridge called puente nacional, and is carried through the defile of Cerro Gordo, at an elevation of 4,264 feet above the sea-level. Fifty miles From Vera Cruz a small plain stretches out, called the Plan del Rio. From this plain the road gradually ascends a distance of 4 m. through winding defiles, till it reaches the gorge of the Cerro Gordo (big hill), a conical hill, which rears its summit 1,000 feet over the adjacent ascents. On the right, the road is alternately shut in by cliffs and chaparral, or thick brush, and on the left by precipitous walls of rock. Gen. Scott describes the locality as "a field of operations covering many miles, broken by mountains and deep chasms." It was along this road that the Americans, flushed with the recent capture of Vera Cruz and the castle of San Juan de Ulloa, were pushing onward to attack the enemy's capital. Scott was encamped on the Plan del Rio when word was brought him that the Mexican general, with a force equal to or exceeding his own, had fortified the pass of Cerro Gordo, and was determined to dispute The whole American force present in action and reserved was 8,500; the Mexican was estimated at 12,000 or more. Scott acted without hesitation. Making a careful reconnoissance, he found that the enemy had fortified himself on the ridge at the left of the pass, and on the hill itself, and had, beside, established 2 batteries across the road, one at the throat of the pass, near the base of

the hill, and the other further on the road toward Jalapa; his defences on the heights being a series of breastworks covering each other, as well as commanding the road; the slope in front of his guns broken by ditches and brush to obstruct the advance of stormers; the extreme left of his position covered by the river flowing at the base of the ridge, his right being guarded by thick chaparral toward Jalapa, with which city his communication was open. In general terms, he held a fortified position, extending in a semicircle of 2 m. on the slope of a mountain defile, at the base of which lay the only road by which the Americans could advance, and which road was enfiladed by batteries. A tower near the summit of the hill. defended by 8 guns, commanded the whole of his works, and was, in effect, the key of his position. Neither the strength nor the weakness of this disposition escaped the American commander. In the forenoon of the 17th he ordered Gen. Twiggs to occupy a certain ridge on the right of the road. The American column, advancing boldly, drove in the outposts and took possession of the first ridge. The Mexicans, being reenforced, took possession of a second slope within range of the batteries on Cerro Gordo, and made a stout resistance, but were speedily dislodged, and driven at the point of the bayonet completely over the hill, a party of Americans boldly pursuing them to the edge of their lines. During the night the Americans managed, with incredible labor, by the aid of 500 men to each gun, to drag up to the summit of the hill 1 heavy 24-pounder, and 2 24-lb. howitzers. The appearance of this battery on the morning of the 18th greatly astonished the Mexicans. An 8-inch howitzer was also placed opposite the enemy's right battery. These preliminary operations being completed, Scott, on the evening of the 17th, drew up the programme of battle. This document is a model of perspicuity. Its substance is as follows: The enemy's whole line of intrenchments and batteries will be attacked in front, and at the same time turned, early in the day, to-morrow—probably before 10 o'clock A. M. Twiggs's 2d division of regulars will move forward before daylight, and take up position across the national road to the enemy's rear, so as to cut off retreat toward Jalapa. Twiggs may, or may not, be reenforced by 1 or 2 volunteer regiments, circumstances shall determine. Worth's 1st division of regulars will follow the movement against the enemy's right at sunrise to-morrow morning. Pillow's brigade will march at 6 o'clock A. M., along the route already reconnections. tred, and stand ready, as soon as he hears the firing on the right (sooner, if circumstances favor), to pierce the enemy's line of batteries as near the river as he may select. Once in rear of the batteries, he will turn to the right or left, or both, and attack them in reverse; when the enemy abandons the batteries he will pursue with vigor, until further orders. Wall's field battery and the cavalry will be held in

laps road. Pillow divided his command into 2 parties, under Col. Haskell supported by Col. Campbell, and Col. Wynkoop supported by Col. Roberts, who were simultaneously to storm the batteries on their left. Every thing was carried out in accordance with the general's orders. At daybreak Shields and Riley, with their brigades, Capt. Lee, of the engineers, acting as their guide, set out over a tract almost impassable, to reach the Jalapa road, and turn the enemy's flank. By the time they reached the Jalapa road the battle was raging in front, and a considerable body of Mexicans, among them Santa Anna himself, had already withdrawn to this point, with the view to secure a retreat. As Shields gained the road, a masked battery opened fire. He had barely time to give his men orders to charge and take it, which they gallantly did, when he fell, shot, but not mortally, through the lungs. The battle in front commenced by the Mexicans opening a plunging fire on the battery established by the Americans during the preceding night. Firing became general along the line. Twiggs, thinking it time to attempt the heights, confided to

Harney a detachment consisting of a portion of

Santa Anna, who had reached fore the division sent to interce in flight toward Jalapa, pursue and Twiggs. The programme h ried out in all respects before 2 spoils of the victory were 8,000 pr to 5,000 stand of arms, 43 pieces 7 standards, together with Santa A baggage and money chest. Five among the captured, namely, Pi La Vega, Noreiga, and Obando; quez, having been killed. The en computed at from 1,000 to 1,200. can loss in the two days amoun cers and 398 men, in all 481, were killed. Lieuts, Ewell, o Nelson, Gill, and Yearwood, of 1 regiment, were killed. Capt. Mas regiment, subsequently died of Gen. Patterson, who was sick, le share in the fortunes of the day.

deeming it unadvisable to be ence baggage and prisoners, as both of officers and m

rendered at discretion. A large enemy, estimated at 7,000 or

(Mexican) position was well chosen, it was ified as well as circumstances permitted; its mks were well covered, and all was foreseen that 1 be foreseen, in regular order, and in the al tactics of war. True it is, that no expecon was entertained of the rare, bold, and erate operations of the enemy, who, in the it between the 17th and 18th, broke through woods, crossed a ravine, up to that time ver crossed, and taking in reverse the position hich the main body of our army occupied, ed it in the time of action, made a general on all parts at once, and cut off the ren the infantry, artillery, and even part of wavalry." The writer then asserts that Anna did cover the rear of the position, withstanding the old opinion, confirmed the experience of the whole war from 1810 1821, that the road by which the enemy nked us was impracticable." That movement s likens to the passage of Bonaparte over the The affair of Cerro Gordo made a great

cion throughout Mexico. Five months ward the American flag floated over the

ican capital.

ERRO GORDO, a N. co. of Iowa, formed e 1850, of a wild and thinly settled part of state, named after the above-described ; area, 652 sq. m.; pop. in 1856, 632. It urained by Lime creek and its tributaries. productions in 1856 were 1,025 tons of 936 bushels of wheat, 1,185 of oats, 11,795 andian corn, 8,845 of potatoes, and 5,589 lbs. butter.

CERTIORARI (Lat. certus fieri, to be made e certain, to be certified), a writ used the purpose of removing the record in particular case, whether civil or criminal, an inferior to a superior tribunal, either auxiliary process to obtain a full return , some other process, or as a distinct mode appeal. In American practice it is usury employed to review the proceedings of ts not of record, and of municipal corstations in certain cases, and the determiions of special tribunals, commissioners, other officers exercising judicial powwhich affect the citizen in his rights or property, and acting in a summary way, r in a course different from that of the mmon law.

OERUSE (Lat. cerussa), a name given to the hite carbonate of lead, the basis of the white

paint. (See White LEAD.)

ERVANTES SAAVEDRA, MIGUEL DE, the athor of "Don Quixote," born at Alcala de ss. Spain, Oct. 1547, died April 28, 1616, on day with Shakespeare. His father was descended from an ancient Galician my, and his mother, Leonora de Cortinas, as a gentlewoman of refinement. Cervantes ceived the first rudiments of education from ope de Hoyos, who occasionally published illections of poetry, to which his pupil, who rely displayed a talent for poetical compo-tion, contributed *Filena*, a pastoral poem,

other compositions. Filens obtained some reputation, and attracted the attention of Cardinal Acquaviva, who, in 1569, invited the young poet to accompany him to Rome. But the stately monotony of ecclesiastical life was little calculated to please the ardent nature of Cervantes, and yearning for more stirring spheres of action, he joined in 1571 the Christian armament, commanded by Don John of Austria, against the Turks. In the great battle of Lepanto (Oct. 7, 1571), he received a wound, which deprived him of the use of his left hand and arm for the rest of his life; but his enthusiasm rose above all physical sufferings, and he remained in active service until 1575, when, on his way from Italy to Spain, the galley in which he sailed was captured by Algerine corsairs. He was in their power until 1580, when his relatives and friends purchased his freedom. The whole romantic account of his captivity is found in his novel, "The Captive." He was treated with great cruelty by the Moors, but his cheerfulness and philosophy seemed to increase in proportion to he severity of his trials, and excited the admiration of his fellow-prisoners. He returned to Madrid in his 84th year, covered with a prestige of glory, romance, and adventure, and here his literary career properly begins. The first his literary career properly begins. The first work which he now produced was the pastoral romance Galatea, said to have been written in honor of his mistress, which showed a decided progress upon his *Filena*, and by its command of language and richness of thought, at least, raised the expectations of his friends. In 1584 he married an accomplished young lady of Esquivias, and now had more than ever to resort to his pen to supply the wants of his family, and for 8 years he wrote plays for the stage, which, however, brought him little fame and still less money. In 1588 he removed from Madrid to Seville, where he acted as an agent of a royal commissioner of the American fleet, and afterward as a collector of public and private debts. During the latter part of 1597, he was imprisoned for about 8 months at Seville, for a small sum due to the government. From 1598, when he seems to have left Seville, until the beginning of 1608, when we find him established at Valladolid, we lose all trace of him. He is said to have spent the interval in La Mancha, and to have been sent there to collect rents due to a monastery; but the debtors, instead of making payment, persecuted him and threw him into prison. Here he is said to have begun to write his "Don Quixote," laying the scene of the knight's earlier adventures in La Mancha and making him a native of the village that treated him so ill. But no direct proof exists in support of this statement, although it is certain that he spent some time in La Mancha.—We now come to the great literary performance of Cervantes. It must here be borne in mind that the death of Philip II. took place in 1598, and the relief which the end of his despotic rule brought to Spain was

felt also in the world of letters. Cervantes could now give free vent to his opinions; and the general tenor of his life, as well as the influences of the age, enabled him to perform the task with remarkable success. His occupation at Seville and La Mancha had given him new opportunities of observation. In his youth at Rome, he had observed in Cardinal Acquaviva's house the character of high life, and there, and subsequently in Spain, he was constantly brought in contact with persons eminent in church, state, and literature. With the camp and Moorish life he was thoroughly familiar, from his service in the navy and his captivity in Algiers. The mysteries of the stage, the characteristics of actors, were known to him from his career as dramatist. His frequent journeys had brought him into close contact with persons of all classes. With such a world of experience, with an inexhaustible stock of humor in his disposition, and with a love of the ideal and the heroic in his heart, this laughing philosopher, acute observer, and at the same time classic and polished writer, produced, in the full maturity of his genius, after having passed the 50th year of his age, his imperishable "Don Quixote." The first part was published at Madrid in 1605. In this work Cervantes hit the vulnerable point of his age. The common sense of the world had long rebelled against the mummeries of knight-errantry, and the foolish books that still spoke of a chivalry of which, in reality, not a vestige remained. People who had smiled when the absurdity presented itself to their minds, burst out in laughter when Cervantes gave it the finishing stroke. The laughter became universal, and it is still going on, constituting a perennial source of pleasure, blended with a tender sympathy for Don Quixote, whose sublime intentions we are bound to admire, while his ridiculous actions are a perpetual entertainment. Grave moralists may object to the general hilarity, and argue that to ridicule performances which, after all, resulted from an exalted sentiment of heroism, self-sacrifice, and unselfishness, is ridiculing goodness itself. But philosophers might as well attempt to stop the fall of the waters of Niagara, upon the ground of the impropriety in the noise of the cataract. Mankind began to be tired of the hypocrisy, sentimentality, sensuality, and folly of the books of chivalry. A new world had been discovered by Columbus. A new interpretation of Christianity had been set forth by Luther. Dante, Petrarch, Ariosto, and Tasso had published their immortal poems. The reign of Elizabeth had given an impetus to English progress. The advent of Shakespeare had taken place. Philip II., the enemy of the new, and the champion of the old systems, had just gone to his grave. Even old Spain yearned for some free-spoken word which would end the weary spectacle of an effete literature. Cervantes uttered that word. Its name was Don Quixote. One day Philip III.

observed from 1 posite banks of the laughter over a buon crazy," said the king, " or he the history of Don Quixote. in 1606, after the court had Valladolid to the capital. the first part of the book ping his residence at Valladolid, when return from Seville and La Mancha, hel up his residence, as he alleged, for business. Although he received frequency from persons connected with the with the literary world, he v his wife, his 2 sisters, 1 female domestic, on the looking house, and his to ments were great. hm : rid, while the publication "Don Quixote," and its unpr (30,000 copies being sold on ance, and translations soon app all foreign languages), drew u themas and the active ho sented the satire of his nov pied himself with the publ. elas Exemplas of written many y had already giv & bye the "Curious Importinent, Quixote. In 1614 he publ Parnaso, a satirical work. ture of the state of & time, in which he descri out bitterness, as the olumenaked Adam of Spanish posame year, while he was press the 2d part of "D tion of the same story bungling plagiarist of T the name of Avellanada. invectives against Cer published at the The 2d part of "Dou wursus ance in the beginning of 1615, wasse & to the conde de Lemos, expressive of for kindnesses extended to him by the. at the same time full of It was received with the strations of enthusiasm warea 1st part. Cervantes had at of his ambition. He had two rope, while even in Spain, as Loudend, there was no one to divide literary empire. The sale of the also relieved his pecu tent. But his health : a presentiment of the reer, indicated in the siles y Sigismunda, a led after the "The Heliodorus, which we at the beginning of 161. published until after his widow. On April 19, he the following words

s, to whom he dedicated the work, and show that to the last the qualities of oldier, poet, and philosopher were ad-ly combined in his generous and genial 3: "I have my feet already in the stirrup.
use this expression since I feel that with
ot I stand in the grave. Yesterday I rel extreme unction; to-day I resume my The time is short, my sufferings grow and more painful; my hopes grow fainter unter; yet I should be happy to see you I die." Four days afterward he died.— Camoëns and Tasso, Cervantes was of un-y fair complexion; his eyes were bright his hair auburn. His countenance, ome in youth, was spirited throughout his lis manners were cheerful. He was beloved spected in every relation of life. He poshimself the magnanimous disposition he ascribes to his Don Quixote; but in the knight the sentiment degenerates olly, it bloomed in the heart of Cervano a genial, witty, humorous philosophy , which made him forbearing toward his es and amiable to his friends. Of his No-Exemplares, La Gitanilla is the most inng. Of his dramatic compositions, his ly La Numancia, founded on the siege at city, contains eloquent passages, but is n without any regard to the Aristotelian. His comedy El Trato de Argel gives a e of Algerine life and manners, and is not ite of interest. As for his miscellaneous y productions, it is needless to say that, ver their merit, they are almost forgotten triumph achieved by "Don Quixote." Yet reat man was buried without any kind of ction in the convent of the nuns of Trinity, del Humilladero. A common tombstone the spot to which his ashes were removed subsequent period; nor was any monuraised to his memory until 1835, when a e statue of him, larger than life, cast at by Sola of Barcelona, was placed in the del Estamento at Madrid; and a small vas placed in 1834, by one of the admirers genius, over the door of the house in the de los Francos where he died. The most lid editions of Don Quixote are those appeared in 1780 at Madrid, in 4 vols., t Paris in 1827, (Didot, 18mo.) One of st is the Madrid academy's 4th edition, d in 5 vols. in 1819, with a bio-ual sketch of Cervantes by Navarrete. Spanish biographers are Mayons y Ciscar ellicer. The edition of 1833-'89, in 6 vols., very complete commentary by Diego Clen. The pocket edition of Leipsic, 6 vols., 7, also deserves notice. His complete d in 16 vols., 1803-'5, and also another n in 1811, which, however, does not inhis Viage al Parnaso. Arrieta, of Paris, hed in 1826-'32 a selection of his works,

vols. Baudry's edition, published at Paris

10-'41, gives his complete works. Ros-

coe's "Life and Writings of Cervantes" appeared in London in 1889. The most eminent German translators of "Don Quixote" are Tieck, Bertuch, and Soltau. The best English version is that of Motteux, with notes and additions by Lockhart.

CERVETRI (the Agylla of the Pelasgi, and the Care of the Etruscans), a village of Italy, in the Pontifical States, Comarca di Roma. Core was one of the 12 great cities of the Etrurian confederation, and is celebrated by Virgil as the capital of Mezentius. Some remains of its walls and tombs are still seen in the neighborhood of Cervetri, which occupies the site of the acropolis of the ancient city. It has a deserted palace of the Ruspoli family, on whose eldest son it confers the title of prince of Cervetri. The most remarkable of the tombs recently discovered is that of the Tarquins, found in 1846, containing 2 chambers, one of which is called by the peasantry the Grotta delle Iscri-

sioni, from the number of its inscriptions. CERVIA, a town on the Adriatic, in the Pontifical States, legation of Forli; pop. about 4,000. It is situated in the vicinity of marshes which contain the most important salt works

in the country.

CERVIN, MONT (It. Monte Silvio; Ger. Matterhorn), a mountain of the Pennine Alps, between the Valais in Switzerland and the Val d'Aosta in Piedmont, celebrated for its matchless picturesqueness and beauty; elevation about 15,000 feet. At a height of about 11,000 feet is the famous pass of Mont Cervin (Fr. St. Théodule; Ger. Matterjoch), traversed in summer by mules and horses. Prof. Forbes describes Wort Corrises the most difficulty. describes Mont Cervin as the most striking object he had seen, "an inaccessible obelisk of rock, not 1,000 feet lower than Mont Blanc."

OESARE, Giuseppe, cavaliere di, an Italian historian, born in 1783, in Naples, died there April 15, 1856. He was at the head of the custom-house of his native city until 1827, when he was dismissed for political reasons. When the constitutional party came into power in 1848, he was appointed governor of the prov-ince of Bari, but tendered his resignation as soon as absolutism was again triumphant. He subsequently devoted himself to literary labors, and wrote Arrigo di Abbate and Latters Romane, historical novels. But his most important production is his Storia di Manfredi, re di Sicilia e di Puglia, which appeared in 1827 and obtained a rida popularity not only 1837, and obtained a wide popularity, not only on account of its literary merits, but also in consequence of the efforts of the author to clear consequence of the efforts of the author to clear Manfred's memory from the imputations of previous writers. For several years he edited a periodical entitled Il Progress; and in Mancini's Bibliotese di sciense merals, legislating, ed economiche, he published an able paper on the philosophy of history. He is also the author of a history of the Lombard league.

CESAROTTI, MELOHIORE, an Italian poet, born in Padua, May 15, 1730, died Nov. 1808. He officiated as professor in the university of

He officiated as professor in the university of

where he established a museum of ancient art. Cespedes was one of the best colorists in Spain, and a successful imitator of Correggio. He was an accomplished scholar in ancient and modern languages, and left a poem on painting and some essays on art. He had a considerable reputation also as a sculptor and architect.

CESSION, an English law term importing the avoidance of a benefice or preferment by the acceptance of a second which may not be held with the first. The incumbent, however, may be relieved by dispensation from the operation of the rule.—In politics, cession is the yielding up of territory to another power. The knights of Malta ceded their island to the French when Bonaparte requested them to do so. French colonies have been ceded to the English at various times.

CESTUS (Gr. KCOTOS, stitched), a band or tie of any kind, particularly applied to the embroidered zone or girdle of Venus, famed for its power of awakening love. By this, according to Homer, Venus captivated Mars, and Juno borrowed it in order to win the affections of Jupiter. The bridal girdle, which was worn by the bride, and unloosed by the husband after

rne mixinia of Lienco wine and brandy. The total ann wine comprise about 40,000 ca dy, 5,000. The salt-works in the are the most important in t yield annually above 500,000 cwi of cod, and oysters, employ ab There are also glass-works, 4 building yards, and an establi duction of sulphates of soda, ... ash by evaporation from sea-v soap, sirups, grape sugar, and I there. The town possesses a merce, various courts of it drographic school, a o u ĺ œ library, a theatre, and is a in bathing. It was laid out in 1 designs, at a great cost, and the w bor were executed by M. Riquet. the canal du Midi. In 1710. from the fleet of Commodore effect a junction with the in vennes, took possession of Chu back after a few days. 1 duke embarked here for CETTI. GIOVANNI lu

Labout 5 hours' journey from the Austrian t Cattaro, is a mountain village, with ut 20 well-built houses. It is, however, only fortified locality in the country, has a ent which resembles a castle, a school since a. and on a plain below the village is a new nment house, where the public affairs of snegro are conducted, and where the prince vadika resides. Gunpowder is manufactured s, and some trade is carried on with Dalmatia. OETUS, the whale, a large constellation of 3. hemisphere containing 97 stars, and said represent the monster which was going to our Andromeda. Its brightest star, named ar, comes on the meridian at 8 o'clock Le beginning of January.

OEUTA, or Sebta, the Botany Bay of Spain, own and fortress, forming part of the provs of Cadiz, situated on the N. coast of Fez, the empire of Morocco, at the E. entrance strait of Gibraltar, where a small penin-juts out in a N. N. E. direction exactly ocite Gibraltar, being joined to the mainland Africa by a narrow but well fortified isthmus, which the town is built. The N. E. of the rn is almost entirely occupied by the Monte - Hacho (the anc. Abyla), which is a spur of

range of mountains called Jebel Zatout (anc. On the highest part of the Fratres). an stands the citadel of Ceuta. The garmen, and the population, ...ch has singularly diminished during the last rears, was not above 2,122 in 1852. The town well built, gives title to a bishop, who is sufn of the archbishop of Seville, and is the of a royal court of justice, and the chief . he Spanish presidios or convict establishs on the African coast. The others, uprising in all an area of 32 sq. m., and a

wavict population of about 11,000, are under he charge of the governor of Ceuta. The own is clean and paved in a mosaic pat-i, has a cathedral, several convents, and a use of mercy founded in 1498, but little trade, me unsafe harbor militating against commercial etivity.—Ceuta was a town of Mauritania

Singitana, under the Romans. In 1415 John I., ing of Portugal, wrested it from the Moors vho in their invasions of Spain first set out rom Ceuta. In 1580 it passed with Portugal o Philip II. of Spain by conquest, and was for-nally ceded by Portugal to Spain by the treaty M Lisbon of 1668. Afterward it was unsuclly besieged by troops from Morocco.

beginning of this century it was held for a

rt time by the English.

JEVA (anc. Ceba), a Piedmontese town, at he confluence of the Cevetta with the Tanaro, n the province and 10 m. E. of Mondovi; pop. bout 4,500. It has a church and 8 convents, and the chief feature of the town is a rock on which are the remains of a citadel formerly used as a state prison. The inhabitants are employed chiefly in cultivating the vine, n manufacturing silk, and in iron works. The celebrated Piedmontese cheese, called

Robiole, is made here, and was renowned even under the Romans, and praised by Pliny. Coals are found in the neighborhood, and truffles abound. It was formerly the capital of the marquisate of Ceva, and was several times besieged and conquered by the French and Spaniards. It was taken by the Piedmontese in 1796, and successfully resisted an attack of the French in 1799. Its principal fortifications were destroyed in 1800, and have not been rebuilt.

CEVA, Tommaso, an Italian mathematician and poet, born Dec. 20, 1648, in Milan, died Feb. 8, 1786. He was admitted into the order of Jesuits in 1663, and spent his life as an instructor in various colleges. His more important mathematical works had reference to angles, for the trisection of which he invented a mechanical instrument. He wrote several biographies in Italian, and many poems in Latin and Italian, 2 of which, entitled *Philosophia nova-antiqua* and

Puer Jesus, are still admired. CEVALLOS, PEDRO, a Spanish diploma-tist, born in 1764 at Santander, died about 1838 at Bayonne. In the difficulties between Charles IV. and Ferdinand he joined the latter, and accompanied him to Bayonne, where he was eyewitness of the various intrigues which ended in the occupation of Spain by the French. Joseph invited him to Madrid; he accepted the invitation, but soon declared against the French, and went to London to forward the interests of the junta. In 1808 he published a celebrated paper on Spanish affairs, especially on the proceedings in Bayonne, which contributed powerfully to excite the public mind against Napo-leon's aggressive policy. He took an active part in the civil service of the liberal cause during the war of independence, and, on the restoration of Ferdinand, officiated for a while as his secretary of state; but losing this office by opposing Ferdinand's marriage to a Portuguese prince he was sent as ambassador to Naples, and af-terward to Vienna, and in 1820 was entirely discarded by the government and obliged to retire

into private life. CEVENNES, a mountain range of France, beinning at the canal of Languedoc, running N. E. to near the central canal, and separating the basins of the Garonne and the Loire from those of the Saone and the Rhône. It extends over nearly 400 m., and is divided into the S. and N. Oévennes. The former, which contain extinct volcanoes, assume successively the names of Black, Espinouze, Garrigues, and Lozère moun-tains, and form the group of Gévaudan, several branches of which diverge in various directions; the most important, running N., connects with the cluster of mountains of volcanic origin known as the mountains of Anvergne. highest points of the Cévennes are Mount Mezin, 5,918 feet, and Mount Lozère, 4,870 feet. The N. are of less importance, and are scarcely more than hills, under the names of Vivaraia, Lyon-naia Forez and Charolais mountains. They nais, Forez, and Charolais mountains. They connect with the Vosges, through the hills of Côte d'Or, the plateau of Langres, and the Fan-

gulf of Manaar, together with the holy island of Ramisseram, nearly connectit with the mainland. summit on the island. It is by Mohammedan and Buddhis From its position and geological character, Ceyone of their holy places. They lon indeed appears to have been once part of the mainland. The straits which now divide firmly believed, among others leaving Paradise, rested with on the two are navigable only for small vessels. mit, and with the other upon The one nearest the Malabar coast has been misseram, using the bowlders w Manaar passage as stepping si from the island to the mainland widened and deepened by the British government, and is now passed by vessels of 300 tons, thus much facilitating the coasting trade, and the summit of the peak, very materially shortening the voyages between the and attained by a series of st Malabar and Coromandel coasts. The W. and is a rock, on which is the I S. coasts are low, much indented, and lined with cocoanut and other palms. Numerous vast human foot, 5, feet by This impress is carefully guar priests, and protected from the mencila is the Cingalese name It is in lat. 7° N., and long. 8 small harbors are found along this shore. The E. coast, from Point de Galle to Trincomalee, is an arid but bold and precipitous shore. On these sides the line of coast is of varying m. E. S. E. of Colombo.—The i depth, from 30 to 80 m., surrounding the ous small rivers and brooks, bu mountain ranges which form the centre of the streams. Few are navigable island. The northern shore, from Calpentyn to Batticaloa, is a vast arid and sandy plain, few miles from their mouths. Mahavilly Gunga, which is 20 next, the Kalani Gunga, has teeming with swamps and jungle. It is on this coast that the pearl oyster banks are found; foot of Adam's peak, and falls Colombo. There are no lakes and on occasions when the fisheries are opened,

the interior, but sev

vast but temporary towns are suddenly form-

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wall of masonry 12 m. long and 160 feet thick. These collections of water were formed by damming the natural outlets of the mountain streams at the mouths of extensive valleys. They were of great service to the country when more densely populated and thoroughly cultivated than now.—A belt of gray and black andstone and coral formations nearly encom-passes the island. The rocks of the interior are mostly primitive, consisting of granite, gneiss, large veins of quartz, &c. Limestone occurs only in Jaffnapatam and the northan districts. The surface soil is mostly sandy. The cinnamon soil near Colombo is perfectly white, and consists of pure quartz. Ores of iron, lead, tin, and manganese are found in the interior. Plumbago is found of excellent qualand is a considerable article of export. Quicksilver mines exist, and were formerly worked by the Dutch. Various gems are found, and salt beds are worked to advantage. The most valuable gems are the ruby, sap-Phire, amethyst, cat's-eye, and carbuncle. Cinmon stones and garnets exist in great plenty. The plumbago mines, of which there are 14, are worked by natives. The mineral is obtained at depths of from 3 to 30 feet, and in rich seams. In 1851 the exports of plumbago amounted to 81,136 cwt., valued at \$28,000. Iron ore is orked up by the Cingalese in a rude way, but with considerable success, the iron being al in temper to the best Swedish. Salt is a monopoly of the government.—The climate of Ceylon differs little from that of the neighborng part of India. The island is, however, nuch healthier than any portion of southern India. The N. E. and S. W. monsoons mark the changes of the seasons. The changes, which Occur on the sea-coasts in May or June and October or November, bring with them heavy thunder storms. The highest temperature at Colombo is about 87°; on the coffee estates it is stated at between 56° and 80°; and in the high valley of Newera Ellia, during January and February, the mercury falls as low as 31°. The prevailing diseases of the country are cholera, dysentery, and fevers. Elephantiasis is a disease peculiar to the natives. The beri-beri (hydrops asthmaticus) is another disease nearly peculiar to the island.—The zoology of Ceylon is much the same as that of the adjoining mainland. The elephant, which stands at the head of the animal list, is of a less tractable or useful species than those of India and Africa. exist in great numbers in the interior, and commit numerous ravages upon the native fields. They are frequently trapped in vast kraals, into which they are driven by a great assemblage of natives. Of late years, English huntsmen have killed great numbers of them for sport and for their tusks. Oxen of small size and buffaloes are used as draught animals. There are 4 species of deer, and a species of the Indian musk, a great variety of monkeys, as well as the hare, squirrel, porcupine, wild boar, bear, and one species of ant-eater. Of birds there VOL. IV.-43

are all the varieties common to the tropics. The hirundo esculenta is stated to build its nests on the coast; but the nests do not form an article of commerce. There are several varieties of serpents, one of which grows to the length of between 20 and 80 feet. Crocodiles are found in the rivers, scorpions and huge spiders in the houses, and a flying lizard in the woods. Fish are of numerous varieties, and in great abundance, some of excellent quality for eating. The vegetable products are both numerous and valuable. There are 416 varieties known of valuable woods, of which 33 are used for house, furniture, and ship building. Among these is the satinwood and ebony. The upas tree has the satinwood and ebony. The cocoanut palm been found in the interior. is altogether the most useful tree to the natives. It grows readily without cultivation, is not limited to one soil, and every part of it is made when green, supplies food and drink; when dry, oil; the sap is made into toddy and arrack; the fibrous husk makes ropes, nets, and matting; the nutshells form household utensils; the plaited leaves serve the same purpose, and also furnish thatch for the cottage; the dried flower-stalks serve as torches, and the large leaves as garden fences. The trees bear from 50 to 100 nuts per annum, and grow so near the water's edge that the waves wash their roots. There are several other varieties of palms, one of which furnishes, in its wide-spreading leaves, the umbrella, which is a no-table article of Cingalese use. The fruit of the betel palm is exported to the amount of \$60,000 per annum. Beside native fruits, which are not numerous, various European and Indian fruits have been introduced latterly under the auspices of English planters, who have formed an agricultural society. Cinnamon, which grows wild in the forests, is cultivated to a large extent, arrives at a high state of perfection, and has long been a chief article of export. Its cultivation was formerly a government monopoly, but was thrown open to the public in 1883; cultivators paid, however, for many years, 8s. per lb. export duty; this is now abolished. When growing wild, the cinnamon plant attains a height of 20 to 80 feet; cultivated, it is not allowed to grow so thriftily, the young shoots giving the finest bark. Coffee flourishes as readily as cinnamon, and its cultivation has in many places taken the place of the latter. Rice, cotton, tobacco, pepper, &c., are also cultivated. Bread-fruit flourishes to a remarkable degree. The sugar-cane does There are 2 rice harvests apnunot succeed. ally, Jan. to March and Aug. to Oct.-Ceylon was known to the Greeks and Romans under the name of Taprobane. Pliny relates that Onesicritus, a captain of Alexander the Great, first circumnavigated it, and thus discovered it to be an island. Before this it was supposed to stretch indefinitely south. The Cingalese have a legend that the island was once much larger than at present; and this seems to receive confirmation in the fact recorded by a Roman

uie i ten century, and in 1001 published an interesting account of his 20 years' captivity. In 1658 the Dutch expelled the Portuguese. In In island at first belonged to the East India company, but in 1802 reverted to the British crown. In 1815 the Candians, whose territory occupied the entire interior of the island, and who were independent of foreign rule, incautiously called upon the British to depose their tyrannous prince. This proved a convenient opportunity for the annexation of this valuable territory. In 1817 an extensive rebellion was successfully put down. In 1843 and 1848 there were minor attempts at rebellion.—The population (exclusive of Europeans) consists of 4 classes: the native Cingalese; Moors, who are found in all parts of the island; Veddahs, a savage, perhaps aboriginal race, inhabiting the mountain fastnesses, and devoid of civilization; and the Malabar and other Hindoos, who immigrate from the neighboring continent. Of all these, the Candian Ceylonese are the finest. The religion of Buddha is the dominant native

creed. There are 4 great political castes, and 24 minor ones. The Cingalese are singularly mild and inoffensive in their manners, and make

grain. Of coffee, the current only from 1884, the yield in cwt. The average yield per a cwt. Cinnamon is exported about 5,100 bales per annum. greatly with the mode of cu between 50 and 500 lbs. per 100 lbs. The planting of c sake of their oil, has of late prosecuted by Europeans. In were engaged in weaving table chiefs, and napkins. The sefrom salt marshes yields the sefrom yields the yields the yields the yields the yields the sefrom yields the enue of £81,222. Exports 407,960 galls.; of coir rope, 4 ports, 4 are to Great Britain from Great Britain, the remu British goods imported are cot glassware, hardware, metals, &c. The foreign trade, which only 2,500 vessels, engaged in inward and outward bound ve ing trade is carried on by ab Ceylon), tonnage about 3
dhomics (a craft peculiar was about 25,000. The bank

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India, and the small native dealers, called chitters, to their connections with Madras and Bombay merchants. The value of exports in 1857 was £2,250,000, and of imports nearly £2,000,000. Adding specie, the aggregate value of the whole trade of Ceylon in 1857 was £5,-

the whole trade of Ceylon in 1857 was £5,—124. The large imports from Australia sisted almost wholly of specie, the Australia gold coinage having by a recent enactment been reade current in Ceylon. The imports from 13 ritish India consisted of grain to the sterit of £500,000, and that of specie largely steeded that amount. A larger proportion of stive coffee having been shipped direct to france in 1857, the balance of trade was against that country. In 1858, however, the experiment of direct coffee exports to France has not been repeated to the same extent. To Holland and Australia the exports were extensive. The following table gives the exports of the coffee exports of 1857-8:

EXPORTS FROM CEYLON FROM OCT. 1, 1857, TO JUNE 24, 1858.

	Plantation Coffee, cwt.	Native Coffee, cwt.	Total ewi.
London	260,264	60,551	820,815
Elverpool.	8,029	8,291	11,320
Fance	8,671	44,208	47,874
Palmouth	5,842	10.078	15,915
Cotteriam	29,749	8,326	83,075
Gibraltar Triant	5,283	2,292	7,575
	5,648	1,307	6,950
Costralia.	6 171	8,486	9,657
	9.001	1,780	8,781
	81	88	64
COLLA		1.250	1.250
		8,829	8,829
- Amoury		1,129	1,129
arious countries.		182	189
Total	826,654	186,232	462,916

The total produce of the season 1857-'8 is estimated at 360,000 cwt. plantation coffee; 165,000 cwt. native coffee; total, 525,000 cwt.; showing an increase upon the preceding year of 14,000 cwt. in the native coffee, and a decrease of 4,000 cwt. in the plantation coffee.—Books on Ceylon have been published by Knox, in 1657, new edition, 1807; by Perceval, in 1803; by Cordiner, in 1807; by Perceval, in 1803; by Cordiner, in 1807; by Selkirk, in 1821; by Forbes, in 1840; by Selkirk, in 1844; by Knighton, in 1845; by Pridham, in 1849; by Sirr. in 1850; and by Sir John Barrow, in 1857 ("Ceylon, Past and Present"). Among the various newspapers published in Ceylon, the "Ceylon Observer" holds a prominent position. CHABERT, J. Xavier, called the fire king, a

CHABERT, J. XAVIER, called the fire king, a Frenchman who excited attention in London in 1829, and subsequently in New York, where he still resides, by swallowing 10 to 20 grains of phosphorus, a teaspoonful of prussic acid, and also exposing himself to the heat of an oven, with the thermometer standing at 880°; his pulse was then beating 168 in a minute. According to his statement, the antidote which he used was extremely simple, but he would not sell his secret, notwithstanding the tempting offers made to him by London physicians who witnessed his experiments.

CHABERT, JOSEPH BERNARD, marquis of, a

French navigator and astronomer, born in Tonlon, Feb. 28, 1724, died in Paris, Dec. 1, 1805. He was an enthusiastic topographer, and planned and executed maps of the shores of N. America and the Mediterranean, and especially of Greece. He entered the naval service in 1741; in 1758 he became a member of the French academy; in 1781 he was made commander of a squadron; he lost his sight through over study in 1800; and in 1804 was appointed a member of the board of longitude. He was an accurate observer, and a patient, industrious, and persevering hydrographer. He was chiefly employed in America and the Mediterranean. One of his principal works comprises his observations on the American coast, and is entitled Voyages sur les côtes de l'Amérique Septentrionale, Paris, 1758. A pension of \$600 was conferred by Napoleon on his widow in 1806.

CHABLAIS, one of the 8 provinces of the administrative division of Annecy in Savoy, kingdom of Sardinia, bounded N. by the lake of Geneva, S. by the province of Faucigny, W. by the canton of Geneva, and E. by the Valais; area 856 sq. in.; pop. 57,562. The country is mountainous, possesses fertile valleys, with rich pastures and fine forests. Corn, wine, and fruit, especially chestnuts and walnuts, abound. The principal articles of trade are grain, cattle, cheese, and timber. Building stone is extensively exported to Geneva. The great Simplon road traverses the northern part of the province. The Romans reared horses in this province, whence its name Caballica provincia, Caballicus ager, or Chablasium. In the middle ages it formed part of Burgundy. In the 10th century it was given by the German emperor Conrad to Humbert, first count of Savoy, whose descendants assumed, in the 14th century, the title of counts of Chablais. Afterward united to France, and forming part of the Leman department under the empire, it was restored to Savoy in 1814, and became one of the neutral provinces of Sardinia. The chief town is Thonon, where the governor resides.

CHABLIS (anc. Cabliacum), a canton and small town in the French department of Yonne, in Champagne; pop. of the canton, which is divided into 14 communes, 8,379, and of the town 2,700. There are in the canton 2 manufactories of silk, 2 of earthenware, a tannery, and 3 mills. The principal article of trade is wine. The best qualities are those of Valmur, Clos, Vaudesir, Bouguereau, and Mont du

Milieu. (See BURGUNDY WINES.)

CHABOT, FRANÇOIS, a French terrorist, born in 1759, died April 5, 1794. He was the son of a cook, became a Capuchin friar, was appointed grand vicar of the bishop of Blois, and in 1791 was sent to the legislative assembly. He became conspicuous by the violence of his democratic zeal, and declared in one of his speeches that "the citizen Jesus Christ was the first sans-culotte." Chabot was the first to apply to well-dressed young men the name of muscadins; in his person and dress he affected

the most extravagant neglect, and he proposed to expel from France all persons except those whose hands were unwashed. At length, however, he lent himself to the machinations which were set on foot by the enomies of the revolution. An Austrian banker of the name of Frey, one of their most active agents, gained him over by giving him his sister in marriage with a dowry of \$40,000. Chabot, whose head was turned by this sudden fortune, soon became implicated in various suspicious operations, and

was finally guillotined.

CHABOT, PHILIPPE DE, a French general, born toward the end of the 15th century, died June 1, 1548. Descended from an ancient family of Poitou, he was brought up with Francis I. Having bravely defended Marseilles in 1524, he was made prisoner at Pavia in 1525. Appointed admiral immediately after his release, he was sent to Italy in 1529 to negotiate the ratification of the treaty of Cambrai by Charles V. Made commander-in-chief of the forces in Savoy in 1535, he effected the conquest of part of that country and of Piedmont, but was censured for not following up his victory. On his return to France charges of frauds upon the national treasury were brought against him by the constable of Montmorenci. Found guilty and imprisoned, he was soon afterward pardoned by the king at the urgent solicitation of the duchess d'Étampes, and reinstated in his position after the disgrace of Montmorenci. He is said to have been the first to suggest the project of colonizing Canada. A collection of his letters written in 1525 is in the imperial library of Paris. monument, dedicated to him by his son Léonor (the same who during his governorship of Burgundy refused to carry out the orders of Charles IX. to enact in that part of the country the horrors of the St. Bartholomew night), is now in the Louvre.

CHABRIAS, an Athenian general, killed in the harbor of Chios 358 or 357 B. C. In 392 he succeeded Iphicrates in the command of the Athenian forces before Corinth, was afterward sent to chastise the Æginetes for depredations on the coast of Attica, and assisted Evagoras in Cyprus, and Acoris in Egypt, against the Persians. In 378 he commanded the army which the Athenians sent to the aid of Thebes against the Lacedomonians, under Agesilaus, on which occasion he saved his troops from impending defeat by a military manœuvre re-nowned in antiquity, commanding them to await the attack of the enemy with pointed spear and shield, resting on one knee. he won an important victory over the Laceds-monian fleet off Naxos. The Athenians having abandoned the alliance of Thebes, he defended Corinth against Epaminondas. A few years later he went on his own account to Egypt, where he commanded the naval forces of Tachos, then in rebellion against the Persians, whose cause, however, after the desertion of the Spartans, he gave up as hopeless. After his return to Athens, he took part in the expedi-

tion against Thrace at the outbreak of called social war. At the siege of Calvessel was the first to enter the harbor, I coming isolated and disabled was soon doned; he alone refused to save his life. I fighting. He was the last of the gardenerals. Demosthenes said of a conquered 17 cities, took 70 vessels, mass prisoners, and enriched the tree vof with 110 talents. One of his which he was celebrated, was thus must stags led by a lion is superior to an army led by a stag. His life was written by C.

CHACHAPOYAS, a district of Peru province of Truxillo, department of L on the frontier of Ecuador, intersected central branches of the Andes, and by Chachapoyas, which flows N. W. thr district and falls into the Maranon. To and breadth of the district are respecti m.; pop. about 12,000. The mountain gions are extremely cold and the valley Wheat, maize, various l sively hot. fruits and herbs, sugar, cocos, indign, duced, and cotton and tobacco in pecuii dance. Cattle, horses, and sheep are Weaving of cotton is also a favorite Few vestiges remain of the for a wealth of the country. There are mines, and only one gold mine.—Chact or San Juan de la Frontera, the c place of much trade, especially in which is raised in great quantities in borhood. It is situated near the W. of the E. Andes, 185 m. N. E. of Tru 70 m. E. N. E. from Caxamarca. P ously estimated at 5,000 and 3,000.

CHACO, EL GRAN, an extensive r South America, lying in the centre of tinent, between lat. 18° and 28° S. and and 63° W., being the most northern of which occupy the surface of the provi Plata, extending on the E. of the region as far as the banks of the Par from the N. boundary of the repuconfluence of the Salado with the cupying the whole tract between them This immense tract of country covers of the whole Argentine confederation area of about 120,0 The portant tributaries or the sa verse the country are the Piccou mejo. The attempts at navigati river have failed, owing to the 1. course and the shallowness of its v steamboat navigation on the Be proved to be practicable, at les of the year. The climate is ex the E. mountainous regions, 1 in the low valleys. There are country, and the soil is in dinary fertility. Palm town of e orange, melon, fig, cotton, cocos. other trees abound. Of a horses, oxen, sheep, vicus otters, monkeys, and apen

ety; and also bees yielding wax in a The country is destined to become mortance in South America as soon nications are thoroughly established nown at present concerning the numinhabitants. They are mostly roving icluding the Tobayas, Guaranes, Paynd other tribes.

DA, CHAD, TOHADDA, TSAD, or Briver of Guinea, joining the Quorra ?!' N., long. 7° 3' E. It is larger than a at the junction, and was supposed nders to form the principal outlet for s of Lake Tchad. Vessels can ascend a and Chadda from the gulf of Guinea wn of Jacobah on the latter river.

ONEA, a town of Bœotia on the the Cephissus, near the frontier of nowned for the great battle in which Macedon defeated the Athenians, the s, and Thebans (338 B. C.). This is won chiefly by the valor of Alexna youth of 18, who commanded ring of his father's army, and broke d band of the Thebans by the the Macedonian phalanx. It made ster of Greece. Another battle was te (86 B. C.), and won by Sylla, over of Mithridates, king of Pontus, under . Some remnants of the ancient still visible at the village of Capurna, theatre on the mound of the slaughbans, an aqueduct, and a broken marble

, the dry calyx of the grasses and the he name is also sometimes applied to cut into short lengths for mixing I, &c., to make what is called chopped is is the chaff used by the ancients ; with clay in the manufacture of brick. INCH (fringilla calebe, Linn.), one st common and most beautiful of the family, and a native of Europe. he bill varies according to the season, lue to a pale reddish brown; the azel; the forehead black; upper part id and hind neck grayish blue; back own; fore neck and breast purplish ll pink; rump yellowish green; the ig coverts black, the secondary tipped e, the smaller black and grayish with ots; the quill feathers white at the along the inner margin; the tail black, the exterior feather obliquely ith white, including the middle of the and the terminal third of the inner; slightly margined with white intertipped with the same on the inner middle feathers brownish gray, blackhe shafts. Female with the upper part id and the back light grayish brown; yellowish green; the breast pale yely. Young like the female, with the Length of the male 64 inches; exvings 114 inches; bill 4 an inch;

tarsus & of an inch; the female is a trifle smaller. The variations from these colors are alight. though the tips of the feathers get considerably worn, giving a brighter appearance to the plumage of the head, back, and breast. The chaffinch is a permanent resident in Great Britain, though in corresponding latitudes on the continent it migrates southward. Its notes are monotonous, generally twink, twink, repeated 8 or 4 times; hence its provincial name of twink; it is almost constantly heard in the lanes and gardens from May 1 to the middle of June. In summer they live chiefly on insects, with which they feed their young; in winter they become gregarious and frequent the fields, farm-yards, and roads, in search of seeds and grain, to aid the digestion of which they swallow smooth particles of gravel. Their flight is rapid, with frequent undulations; on the ground they move with short leaps. The nest is very neatly constructed of moss, lichens, wool, feathers, and hair, and is generally of such a gray color as to be seen with difficulty in the cleft of the lichen-covered trees. The eggs are 4 or 5 in number, about ‡ of an inch long, of a purplish white or pale reddish gray color, with a few spots and lines of reddish brown. The chaffinch is one of the most familiar birds, and, with the sparrows and buntings, in the winter will come in flocks around the doors of the farm-houses. They prepare to breed in April, and hatch their first brood by the middle of May, and a second by the end of July. The chaffinch is much esteemed in Germany as a song bird, and from its beauty it is occasionally seen as a parlor ornament else where.

CHAGRES, a seaport town of New Gransda, at the mouth of Chagres river, on the N. coast of the isthmus of Panama. It is built on both sides of the river, the left part being called the American town, inhabited chiefly by natives of the United States, and the right part the old Spanish or Indian town, with negroes, half-breeds, Mexicans, Spanish, and a few English. The former is composed of wood houses, the latter mainly of huts thatched with palmetto, and contains an old church. The harbor is difficult of entrance and very shallow. The Panama railroad, across the isthmus, commences at Aspinwall, about 8 m. N. E. of Chagres.

CHAGRES RIVER, of New Granada, rises about 80 m. N. E. of Panama, flows at first W., then N., and after traversing a fertile country enters the Caribbean sea, on the N. coast of the isthmus of Panama. Navigation is rendered difficult by the great rapidity of the river and its numerous rapids.

OHAILLOT, one of the suburbs of Paris, situated beyond the Champs Elysées, between the avenue of Neuilly and the river Seine. It was of old renowned as the seat of a convent; it is now important as a manufacturing place.

it is now important as a manufacturing place.

OHAIN, a measure of length, formed of links of iron wire; a surveyor's chain having 100 links, each 7.92 inches in length. Engineers,

Differential on the sides, one branch going to the ring in front, the other to the ring behind, causing a nearly continuous waving white line on the sides from the neck to the vent; alternating with the dorsal bars there are irregular white blotches reaching to the abdomen, which is shining violet black; the tail has 4 or 5 transverse rings. In a specimen 42 inches long, the head measured a little over an inch, the body 36 inches, and the tail 5 inches; they attain a length of more than 4 feet. Though fond of moist and shady places, it does not take to the water or to trees; it feeds on moles, mice, small birds, and reptiles, and even other snakes. It is found from New York to Florida; its western limit is not positively known. The abdominal plates are about 215 in number, and the bifid sub-caudal scales from 40 to 50.

side of a ship, abreast of her lower rigging, and projecting from her side. The shrouds are brought down to the outsides, and the chains thus act as permanent outriggers, giving the lower rigging a wider spread than it could otherwise have, and affording the mast a firmer

support. Chains are now little used except in

large men-of-war.-CHAIN PLATES are plates

ien ander the dominion of the F Its walls were destroyed by now but a poor village. In ecc it is celebrated as the seat of t cal council, convoked A. D. 451 the emperor Marcian, to conde

Eutyches concerning the two n and to counteract the bad eff thorized assembly held at E which the title of Latrocinium, has commonly been applied. designated as the place of r disturbances created there by Dioscorus, who had presided synod, induced the emperor to nearer his capital. Accordin CHAINS, a place, or ledge, built on the out-

chiefly from the East, assemble of St. Euphemia, at Chalcedo Leo I., afterward called the G his legates. The creeds of Nic nople were adopted as the rule ter a prolonged discussion the L sinum, as well as the doctrines Dioscorus, in favor of which pronounced, was condemned

professed their belief in the en

and dec

inres in Ch

promulgated, among which was the cele-ed decree, opposed by the Roman legates, nade the see of Constantinople equal in es and jurisdiction, and next in rank, to of Rome. It was also ordered that no should take money for ordination, that sculesiastic should undertake the adminision of the temporal matters of the church, widows and orphans, forsake the church any other office, go before a lay tribunal, more than one benefice. Bishops were uen to divide their provinces, and were a control over the clergy in monasteries. s were forbidden to be appointed of 40. Differences were adjusted the sees of Antioch and Jerusalem, ше. nucuia and Nice; and Theodoret, deposed or the emperor Flavian, was restored to his ric. These decrees were confirmed by with the exception of the one relating to see of Constantinople, and throughout the n church the council has always been held gh veneration.
HALCEDONY, one of the numerous vaes of the quartz family, which are dis-

ished from each other, not by difference hemical composition, but by their peculiar al form, markings, and colors. The arities of chalcedony consist principally mammillary, botryoidal, and stalactitio es, and its waxy or horny lustre and tex-It is found lining cavities in trap, and in other rocks, being arranged in conric layers, precisely as if its particles had introduced in a gaseous or fluid form.
intermixture of opal with the purely
ous layers proves that water was present ng the production of the mineral incrusta-By the variety of its colors and the high e it acquires by polishing, chalcedony is a esteemed as an ornamental stone, though

reat hardness renders it very difficult to

L. In several of the countries of Asia it is

non to find articles of this stone, as cups, s, &c., of the most exquisite workmanship, licate as the finest chinaware, and such as d never be attempted by any of the more ized nations. Specimens of the finest texand most delicate shades are selected for , especially such as are more or less e, passing into transparent and brown. Europe the stone is worked with the s which have already been mentioned r Agate. Some of the finest known specis of chalcedony were found at the Tresavean They occurred in a er mine in Cornwall. e vug or cavity in the mine, and none rs were found like them. One of them, ribed as resembling the anatomized wing of ge bat, displaying its bones and arteries, is erved in the British museum. The mineral quently met with in the United States, and articularly abundant where metallic veins worked, but no specimens of extraordinary ty are found.

CHALCHIHUITI, the Indian name of a green-colored stone, held in high repute by the ancient Mexicans, and by the Indian tribes now inhabiting the northern and western portions of New Mexico. They possess the art of fashioning it into ornaments, as beads and other trinkets, and occasionally use it in trade, valuing it more highly than gold. It proves, according to the researches of Mr. W. P. Blake, who has published an article upon it in the "American Journal of Science" (March, 1858), to be tur-quoise. The locality, at which it has been obtained from remote periods, is in the mountains called Los Cerrillos, 20 m. S. E. from Santa Fé. A quarry of extraordinary extent has been ex-cavated in a granular light-colored porphyry; and around it are a number of smaller excavations. Mr. Blake describes the great pit as appearing, from the top of the cliff, "200 feet in depth, and 800 or more in width." Pine trees more than 100 years old are growing upon the debris in the bottom and about the sides. These excavations were evidently made before the conquest of the country by the Spaniards, though the Indians still continue to visit the locality to search among the debris for more crystala. The earliest historians, as Ber-nal Diaz, who accompanied Cortes, and others, make mention of chalchibuits among the presents made by Montezuma, intended especially for the Spanish sovereign. Mr. Blake proposes for the Spanish sovereign. Mr. Blake proposes that the name be retained by mineralogists for this New Mexican variety of turquoise. The

Indian pronunciation of it is chal-che-we-te.

CHALCIDIUS, a Platonic philosopher, who flourished probably in the 6th century A. D.

He is described upon the manuscripts of his work as vir clarissimus, and these vague words are the only allusions which we have to his life. There remains from him a Latin translation of the first part of the "Timeus" of Plate, with a learned commentary. This work is dedicated to a certain Osius, who has been by some regarded, without however any evidence of it, as the archbishop Osius, who took a leading part in the debates of the council of Nice in 325. Giraldi and Brucker have maintained that Chalcidius was a Christian, Goujet and Mos-heim, that he was a pagan. The last and best edition of his commentary is that of Fabricius. at the end of the second volume of the works of

St. Hippolytus (Hamburg, 1718).

OHALCIS, or NEGROFORT, the largest and most important city of Eubora, the ancient name for the island of Egripo, lying immediately off the E. shore of Bootia, now Livadia, from which it is separated only by the narrow straits of the Euripus, which is evidently the origin of the mod-ern name Egripo. The city and fortress, which was one of the strongest and most important of ancient Greece, is situated at the very narrowest part of the strait, which is formed by the crowding forward of a projecting spur of the mountain of Karababa, on the mainland, and the corresponding protrusion of a rocky promontory on the island side. Immediately on

A stone bridge, oo or to reet in length, name aubborring me obinion of this people, particularly its es connects the Bœotian shore with this castle. A wooden bridge, about 35 feet long, which may be raised at both ends, for the purpose of admitting the passage of vessels, communivolved in great obscurity, and it be seen whether the discoveri-made in the ruins of Babylon. Susa, which throw a new light cates from the small castle to the gate of Castro, which is in a tower projecting from ject, and the results of which the walls. It appears that the round tower is atically arranged in George a Venetian work, the rest of the fortifications work on Herodotus (Lond Turkish. Col. Leake could find no vestiges of pate all the difficulties. Luar ancient Chalcis, except a few fragments of white marble in the walls of mosques and hunter, who is mentioned in tl esis as the founder of the empir houses, and the bust of a statue in the wall of which is afterward styled the la a house in the fortress. The lion of St. Mark dees, is a Hamite, and seems to remains over the gates of Castro, many of the his conquest northward, at least better houses of which are of Venetian construcalmost generally adopted explana tion, and there is a church with a high pointed sage which speaks of him. Th roof, a square tower, and Gothic windows, Belus as the founder of the same e is said in the Bible about the n belonged Amraphel, the k : of Babylonia, who fought a uthe days of Abraham; and a CHALDEA was properly the name of the centuries separates the first mean deans in connection with the Ur of the patriarch, from t

which was probably built by the same people, as they were in almost constant possession of the place for 3 centuries preceding its capture by Mohammed II. in 1470. S. W. part of ancient Babylonia, bordering on the N. E. confines of Arabia. So it is mentioned by Ptolemy the geographer. Strabo also speaks of a Chaldean tribe living in that region.

in scriptural history, in . cept their being menti ս հս ա CHALDEA 675

nclusion that Babylonia, having been Nimrod or Belus, be these names not, had reached a high degree of ght, and glory, before it was conwarlike tribe who made Babylon of greater conquests, power, and "the beauty of the Chaldees' excelt is called in Scripture, the Chaldaiium caput, as Pliny calls it. Thus of this nation, as masters of Babyd be dated either from the year he first of the so-called Chaldean era sar in the astronomical canon of ho makes him the first of a series of this nation who ruled the or the fall of the first Assyrian num the reign of Nabopolassar, who with Cyaxares, king of the Medes, roke, and conquered even the capissyrian state, thus founding the inof Babylonia, and its predominance Asia, which his son Nebuchadnezzar xtended. But this conclusion is by the circumstance that Babylon is have been already the seat, in the e periods of history, of a system of p and science, which in antierully attributed to the genius and ory of the Chaldeans, whose name ical and classical antiquity designates e nation, but also the peculiar priest d to the sacred science of astrology; mentioned that Callisthenes, who ac-Alexander on his expedition to Persia. le a collection of astronomical obserle by the Chaldeans in the temple of observatory, during a period of no ,903 years. It is moreover shaken ents of the fragments of the Babyloian Berosus, preserved in Josephus, nd others, which, though full of ex-egends, at least prove a very ancient the Chaldeans were the earliest or earliest organizers of Babylonian rosus speaks of an antediluvian dyaldean kings, the first of whom was l the last Xisuthros, in whose time he great flood, the description of s a great resemblance to that of the oah. During the reign of the 3d of Oannes (supposed by some to be the ripture), an extraordinary being, half ish, speaking with a human voice, the waves of the Erythræan sea to shabitants of the shore religion and ce, art, and industry, retiring every the sea and reappearing every morn-I his successors became the civilizers ple of Babylonia. They are called being perhaps allegorical representchief priests, or of propitious genii o have inspired as many sacred worship and science. These were Xisuthros at the time of the flood of the sun, Sippara, where they were found. Some critics have seen in

this myth of Oannes a confirmation of a relation of Diodorus, according to which a colony from Egypt headed by Belus, the son of Poseidon and Libya, carried the science of their land over the sea, to the inhabitants of the Babylonian plains, which served to vindicate the claims of the Egyptians for the priority of their astronomical knowledge over that of their great Asiatic rivals; while others regarded the Chaldeans as the fathers of astronomy, and their country as the focus of this science, whence it spread to India, Egypt, and the West. The 2d and 3d dynasties of the 86 postdiluvian kings of Berosus are also Chaldean. The most plausible way of reconciling the discrepancies in the testimony of the ancients, seemed to be to the critics of the school of Gesenius, whose dissertation on the Chaldeans in the Encyclopadie of Ersch and Gruber was long regarded as the best solution, to sum up the history of the Chaldesns as follows. Their first home is either in the mountains of Armenia, or somewhat further N. in those of the Caucasus, or further S. in those of Koordistan, their scriptural ancestor being either Arphaxad, son of Shem, or Chesed, son of Nahor, likewise a Shemite. They spread over Mesopotamia and make incursions into Babylonia. A colony of them, soon after the foundation of Babylon, establishes the influence of their priest caste in that state. Like the Brahmins of India, they rule the public worship, and through it the laws and manners of the Babylonians. They develop art, industry, and commerce, but above all the science of astronomy and as-trology. They occupy the highest rank in the state, and its governors or viceroys, in the period of subjection to Assyria, are chosen from their body, of which is also Nabonassar, who heads the series of 19 Chaldean princes mentioned in the *Almagest* of Ptolemy (from 747 B. C.), probably vassals of the Assyrian empire. One of these princes is Merodach Baladan (mentioned also under this name by Berosus, and under that of Mardok-empad by Ptolemy), who, in the time of Sen-nacherib, sends ambassadors to Hezekiah, king of Judah, probably with the object of forming an alliance against the common oppressor. His successor, Belibus, is carried away as captive by Sennacherib, who makes his own son, Esarhaddon (the Asordan of Berosus), vicercy of Babylonia. In the mean time, the stock of the Chaldean nation remains in their native mountains, warlike, fierce, and predatory. They appear as plundering invaders in the book of Job, and at a late period as Persian soldiers in the history of Herodotus, and as a warlike mountain tribe in the *Anabasis* of Xenophon. Strengthened by new immigrations of this warlike people, Nabopolassar, the Chaldean vice-roy of Babylonia, shakes off the yoke of New Assyria, destroys Nineveh with Cyaxares, and thus becomes the founder of the Chaldean empire, now properly so called, whose limits, might, and glory are vastly extended by his



The " bitter and hasty" hation of the Onatdeans disappears as such, and its name is preserved for some time only in scattered tribes, and its glory in the science of its priests. The determination of the lunar periods, that of the equinoctial and solstitial points, a more precise definition of the solar year, the division of the ecliptic into 12 equal parts, that of the day into hours, the signs, names, and figures of the zodiac, the invention of the dial, are among the improvements in astronomy attributed to the knowledge of the Chaldeans. In their religion, so closely connected with their science, light is the chief element, and the Sun, the Moon, Saturn, Jupiter, Mars, Venus, Mercury, and other stars, as well as the constellations of the zodiac, are chief objects of adoration, worshipped in temples with sacrifices and festivals; though it may be hard to define precisely to which heavenhay be hard to define precisely to which neaven hay be hard to define precisely to which neaven hybrid sare to be applied the names of Bel, Gad, Nebo, Merodach, Nergal, their divinities mentioned in Scripture, or those of Salambo, Turrah, Derketo and Mylitta, which are spoken of in profane writers. Their legends speak also of the monsters of the chaos, of Amorca, or primitive night. With the decline of Babylon their science sinks, and Chaldeans are

and registered, astronomical t formed, and a chronological s thereupon, such as we find to uninterrupted to the days and Berosus. A system of which aimed at the communi through the rude representation jects, belonged, as it would see the tribes who descended the N pia, but to those also who, pe from the same focus, passed east ley of the Euphrates. In the ment, too, of the systems which society called forth, a very simils be presumed to have been follow visions of the Hamite race, the being reduced in process of tim for the convenience of sculp characters being assigned phone corresponded with the names represented." "To the primi nasty, which is represented. Bible by Nimrod, the son of Ca of Ham, the 2 carliest of the me Urukh and Ilgi, may be assign to Berosus, the chronologic

mar and Ellasar, who fought under his banner in the Syrian war, as subordinate chiefs, and Tidal, who led a contingent of Median Scyths belonging to the old population, may have been the local governors who had submitted to his power when he invaded Chaldea." Cheder-laomer is probably the Kudur-mapula of the inscriptions, and the Elamite founder of the 2d Hamite dynasty of Babylon, termed Chaldean by Berosus, whose historical dates are in the main confirmed by the inscriptions. Ismi-dagon, who reigned about 1861 B. C., extended the Chaldean power over Assyria. Metended the Chaldean power over Assyria. rodach-namana (about 1675 B. C.) is the first who is styled king of Babylon. "On the bject of the Arabian dynasty (1518-1273 B. C.), which, according to Berosus, succeeded the Chaldean on the Euphrates, nothing certain ascertained from the monuments. The Arabians formed an important element of the population of the Mesopotamian valley from the carliest times." The predominance of Assyria lasted probably from 1273 to 747 B. C. During these 526 years the history of the subordinate Babylonia is, with few exceptions, a blank. The era of Nabonassar (747 B. C.), which has no historical importance, marks the date of a great revolution. Of the successors of Nabenassar, Merodach Baladan was conquered by Sargon, king of Assyria, regained his kingdom, and was again deprived of it by Sennacherib, the son of Sargon, who plundered Babylon, ravaged the whole country, destroyed 79 cities and 820 villages, burned the palaces of the kings, and carried off the skilled workmen and the women. Babylonia was then governed by Asshur-nadin and Belibus, viceroys of the Assyrian monarch, or independent kings, until Esar-haddon, the son of Sennacherib, united the Babylonia remained in subjection to 2 thrones. the time of Nabopolassar (625 B. C.), who rebelled against Saracus, the last king of Assyria, and with whom the later and greater Babylonian empire commences, which flourishes particularly under Nebuchadnezzar, the son of Nabopolassar, and ends with Nabonidus and his son Belshazzar (538 B. C.). The most remarkable divinities of the inscriptions, whose stellar and mythological character, however, can hardly be traced amid the endless confusion of names, titles, epithets, and signs, are Ra or II, Anu, Bil, Héa or Hoa, Bilta or Beltis, Iva, San, Sin, Ninip, Bel-Merodach, Nergal, Ishtar, Nebo, Allata, Bel-Zirpu, &c. An attentive comparison of the different theories will at once show that many questions are still to be solved, and many objections to be answered; but still a solution may be hoped for that will reconcile all difficulties.

CHALDEE LANGUAGE is the eastern dialect of the Aramaic, of which the Syriac is the western, and which forms the northern branch of the Semitic tongues, the Hebrew, the Arabic, and some other minor dialects forming the southern branch. As the language of Babylonia in the time of its national greatness, whence it was brought by the Jews after their captivity

to Palestine, it is also called Babylonic. The Chaldee is known to us only through the writings of Jews, every trace of national literature in this language, if there was any such, having disappeared. The history of the Babylonian priest Berosus, of which fragments have been saved, was originally written in Greek. Beside a few words in Genesis (xxxi. 47), and Jeremiah (x. 11), we have in the Hebrew canon several chapters of Daniel (from ii. 4 to vii. 28), and Ezra (from iv. 8 to vi. 18, and vii. from 12 to 26), written in this language; and of works of later Jewish writers, the different Chaldaio translations and paraphrases (Targumin) of various parts of the Bible, the 2 Talmuds, and some more modern productions. The apoeryphal books of Tobit, Judith, and Maccabees, as well as the history of the Jewish war by Josephus, are also supposed to have been originally written in Chaldaic, this idiom having become by degrees the common language of the Jews after the Babylonish captivity, and par-ticularly from the times of the Maccabees. Of the Targums, that of Onkelos (probably written in Babylonia in the 1st century), a strict translation of the Pentateuch, is distinguished by the purity of its idiom, surpassing that of the biblical fragments; that of Jonathan ben Uziel, a paraphrase of the historic and prophetic books, composed in the 1st or 2d century, and the Pseudo-Jonathan and Hierosolymitan paraphrases of the Pentateuch, of much later date, are less pure and valuable. Of the Talmuds only the Gemaras or the commentaries are composed in a Chaldaic idiom, which is greatly corrupt, chiefly in that of Jerusalem, and requires a particular study; while the shorter and elder Mishna, or the text, is Hebrew, though with Aramaic features. After the conquest of Babylonia by the Arabs in the year 640, the use of the Chaldee language gradually ceased; and it is now spoken only in a few mostly Christian communities in the mountains of Koordistan. As a dialect it is distinguished from the Syriac by its avoiding diphthongs and the vowel o, for which it generally has a, by the use of Dagesh forte, as well as by generally accenting the last syllable, and a less defective writing; from the Hebrew, with which it has a common alphabet, by broadness, by substituting labial for hissing sounds, a for and z, o for in, and by comparative poverty in vowels. In forms it is poorer than both the Hebrew and Syriac. the best grammars of this language belong those of Buxtorf, Michaelis, Harris ("Elements of the Chaldaic Language," London, 1822), Fürst (Leipsic, 1885), Petermann (1841), Winer (Leipsic, 1848), Partham (Cattingen, 1848) sic, 1842), and Bertheau (Gottingen, 1843). The great dictionary of Nathan bar Jachiel of Rome (of the 11th century), entitled Aruch, and enriched with additions by Mussaphiah, has been published in a more modern form by Landau (5 vols. Prague, 1819 and after). Buxtorf's Lexicon Chaldaicum Talmadicum et Rabbinicum (Basel, 1640), is founded upon it. Luzzato's Oheb-Ger, and Geiger's Lehr- und

Leschuch zur Sprache der Mischna (Breslau, 1845), are valuable contributions.

CHALDRON, an English measure containing 86 bushels, used chiefly in the measurement of coal.

CHALET (Ger. Sennhutte), the name for the log huts in Switzerland in which the herdsmen reside. They are made of pine logs, notched at the extremities so as to fit together at the angles of the building where they cross. The roof is low and flat, covered with stones to protect it against the elements. The interior has scarcely any thing beyond the apparatus of the dairy, including a large kettle for heating the milk. In the loft above is a store of straw to serve as beds. The entrance is difficult, the ground outside being broken by the feet of cattle, and covered with heaps of mud and dung. In the Semmenthal alone there are about 10,000 chalets, and all pastoral Swiss valleys are covered with huts of the kind. The herdsman who resides in the châlet has to collect about 100 cows twice a day, to look after stragglers, and to make the cheese, which is the principal occupation inside the chalets. The owners of cattle themselves reside also in châlets, but they are of a superior kind, and less numerous. Some of these châlets of the better sort, with their delicious milk, fresh butter, bread, and cheese, offer delightful retreats to the weary traveller.—Another kind of châlet is a shed or barn, in which the hay is kept until the winter, when it is carried over the snow in sledges down to the villages below.

CHALEUR BAY, an inlet of the gulf of St. Lawrence, separates Lower Canada from New Brunawick. It receives the Restigouche river at its W. extremity, affords excellent anchorage, and is much frequented by mackerel fishers. Its navigation is everywhere safe. Length from E. to W. 90 m.; breadth from 12 to 20 m. A French fleet was defeated here by the British,

July, 1760.

CHALFONT ST. GHES, a parish of England, co. of Bucks, on the Great Western railway; pop. 1.228. It was the residence of Milton during the plague in 1665, and the place where he finished "Paradise Lost." In a cemetery of the society of Friends in this parish lie the remains of William Penn, the founder of Pennsylvania.

CHALGROVE FIELD, in Oxfordshire, England, on the railway from London to Gloucester, memorable as the scene of the defeat of the parliamentary forces by the royal troops under Prince Rupert. The celebrated John Hampden was mortally wounded in this battle, June 18, 1643. A monument commemorating this event was erected in 1848, and inaugurated on the 200th any inverse of the der

200th anniversary of the day.

CHALICE (Lat. calix, a cup), the vessel containing the consecrated wine in the sacrament of the eucharist. In honor of its sacred purpose, it has usually been made of as costly a substance as the circumstances of a church permitted—of glass, crystal, silver, or gold—and

often embellished with sculptures and prec stones. St. Ambrose relates that in period distress the early Christians sold their cha to aid the poor.

CHALK, an earthy mineral, consisting of bonate of lime of friable texture, easily re to a white powder. It constitutes n tions of vast extent, being seen along of the North sea and the English ca-England and France, towering up in cl times 1,000 feet high, that dazzle the eve i sunlight with their brilliant whiten the chalk cliffs of England that gave a inal name of Albion, in allusion to its shores. The rock formation of which ch the principal member, and which is cale cretaceous, or chalk formation, is the group of the secondary series. It is across the continent of Europe from the Ireland toward the S. E. to the Crimes. tance of 1,140 m., and from the S. of Sw beyond Bordeaux, about 840 m., oc patches over the greater part of the a area. It gives to the topography an intervariety of abrupt cliffs upon the co ers, and of bold hills in the interior, in every direction with valleys of flowing outline; but the soil it promes general too calcareous to be very pr A remarkable feature in the c some localities is the occurrence or flint nodules in the rock, horizontally a and not in contact with each other, as shapes and sizes, varying from an in yard in circumference. The flints fr appear to be concretions of around organic substances, as | sponges, &c., into the most munte p which the silica has penetrated, be preserving their peculiar forms. self is in great part composed of finnuted shells and corals, and it is now ; understood to have been derived from . sources as the fine white calcareous fills the bottoms of coral lagoons, stices of its structures. This pro entirely of animal origin, in part 1 shells and corals, and partly of shell-fish, and of certain g which, in the coral regions w. were seen by Darwin through the c browsing quietly in great numbers living corals, like grazing herds of a nivorous quadrupeds. In the co South seas Mr. Dana found porten compact and solid as any secon and parts of the still growing be distinguished from por of the rocks of the cretaceous fo of this geological group atwi ۰ وه ilies, but of extinct species found in it in New Jersey of the same formation in a is absent, though the other and green sand are recogn. elsewhere accompany it.

· a variety of purposes. It is easily convertm into lime, in which state it forms a valuable ilizer as well as cement. It is used as a ing material, and also for polishing metals mu glass. When finely ground, and purified w washing and separating its harder particles, is sold by the name of whiting, or Spanish waite. The flints found in the formation were mee much used in England in the manufacture In medicine, chalk, when thoroughly of glass. ified, is used under the name of prepared ik, as an absorbent in diarrhœa; it is also antacid, and is used to furnish carbonic acid ; it is also a dentifrice.—French chalk is a ware variety of steatite or tale, used by tailors marking cloth, and also mixed with cosmeto give them body.—Black chalk is a vay of bituminous shale, made use of by artfor drawing.—Red chalk, or reddle, is an rgillaceous red oxide of iron.

CHALKLEY, THOMAS, a preacher in the so-nety of Friends, arrived in Philadelphia from ingland at the beginning of the 18th century, abored among the Indians at Conestoga, near he Susquehanna, and died in Tortola in 1741. rhile engaged in spreading his doctrines in hat island. He commenced the foundation of he library of the society of Friends in Phil-hia. His journal and a collection of his

vrigings were published in that city in 1749,

nd in New York in 1808. CHALLENGE. This word, which is now, except in a legal sense, used solely to imply a provocatory summons to mortal combat, seems riginally to have conveyed within itself the dea of an appeal, of an exception taken, or a slaim asserted, and a disinclination to submit o some decision or arbitrament, rendered or about to be rendered, and removal of the subect matter of dispute to some other court or ribunal. Thus, in ancient times, the duello was never the mode of settlement of an angry personal dispute; but it was the trial of a solemn ause, before the actual court and in the presnce of God. The challenger took exception to the truth of the allegation made against him by his adversary or opponent, and removed the idjudication of the cause, by appeal of chalenge, from the human court of law, before which it was pending, to the divine court of quity, which was believed directly to interfere n the event of wagers by battle, and to give he strong arm and the sharp sword to the rightous party. (See Appeal.) In the same sense, when a jury is challenged, whether by the array or by the poll, exception is taken to the fairness of the impanelling of the whole jury, or to the partiality of the individual juror; and, having aken exception, the person accused by his chalenge removes the adjudication of his cause from hat entire jury, or from that individual as part if it, to some other, by whom he believes he an have a fair trial, which he denies that he an as it is at present constituted.—A challenge s a preliminary to a duel is forbidden by the aws of most of the United States, and in the

American army by the articles of war. officer or soldier sending a challenge to another officer or soldier, or accepting a challenge if sent, incurs the penalty, if a commissioned officer, of being cashiered; if a non-commissioned officer or soldier, of suffering corporal pun-ishment. Any officer, who knowingly or willingly suffers any person whatsoever to go forth to fight a duel, is punishable as a challenger, and seconds are not distinguished from principals. The punishment is at the discretion of the courtmartial, of which if any member is challenged by a prisoner, that member withdraws, and the court is closed to determine upon the relevancy or validity of the challenge. If the challenge is disallowed, the member resumes his seat.-Challenge is also a hunting term, used of hounds or beagles, when, at first finding the scent of their game, they presently open and cry; the huntsmen then say they challenge.

CHALMERS, ALEXANDER, a Scottish biographer and journalist, born in Aberdeen, March 29, 1759, died in London, Dec. 10, 1834. The work on which his celebrity chiefly rests is the "General Biographical Dictionary," 82 vols., commenced in 1812, and completed in 1817. He also published annotated editions of the British essayists, of Shakespeare, and of the English poets from Chaucer to Cowper. In 1820 he published an abridgment of Johnson's English dictionary. During his long literary career he edited works enough to form a moderatesized library. Among them were the complete writings of Fielding, Johnson, Bolingbroke, and sized library. Gibbon, beside individual biographies too numerous to recount. At different periods he was editor of the London "Morning Herald," associate editor of the "Morning Chronicle," and frequent contributor, under the signature of "Senex," to the "St. James's Chronicle," as well as to the critical and analytical reviews. He was a man of exemplary private character. The family of Chalmers still carry on an extensive printing business at Aberdeen

CHALMERS, GEORGE, an English historian, born in 1742, died in 1825. He studied law at Aberdeen, and accompanied an uncle to the North American colonies, where he settled at Baltimore. At the commencement of the revolution, he returned to England. He wrote "An Estimate of the Comparative Strength of Great Britain," and "Political Annals of the United Colonies;" also a historical and topographical account of North Britain from the most ancient times, entitled "Caledonia," the lives of De Foe, Ruddiman, Allan Ramsay,

Thomas Paine, and several others.
CHALMERS, LIONEL, a physician of South Carolina, and writer of several medical works, born at Campbelltown, Scotland, in 1715, died at Charleston in 1777. He emigrated from Scotland to Christ Church parish, S. C., but soon removed to Charleston, where he practised for 40 years.

CHALMERS, THOMAS, D.D., a Scottish divine, born at Anstruther, in Fifeshire, March 17.

coming a candidate for the chair of natural philosophy at St. Andrew's in 1804, and for the mathematical chair in Edinburgh in 1805. His first effort in authorship was a pamphlet to prove that the vigorous prosecution of science was not incompatible with ministerial duties and habits. On Napoleon's menace of invading England, Chalmers joined a corps of volunteers not only as chaplain but lieutenant. In 1808, upon the alarm created by Napoleon's decrees against British commerce, he published his "Inquiry into the Extent and Stability of National Resources," to show that the apprehensions were groundless, and thus added political economy to the sciences in which he was proficient. He had already become a contributor to the "Edinburgh Encyclopædia," and the article on Christianity was assigned to him. It was in his studies while preparing this article, amid a series of domestic bereavements and a long and severe illness in 1809, which brought him near to the grave, that he experienced a great spiritual change. Then, for the first time, he thought, he saw the gospel of Christ in its true light, and he emerged from his trials with deepened views of the duties of the clerical

likened the impression produced to "what one reads of as the e quence of Demosthenes," and equally enthusiastic in his ad "Astronomical Discourses, day lectures on the connection b coveries of astronomy and the lations, were published in 181 the Waverley novels in popular year nearly 20,000 copies of the His fame had meantime extenland to London, where he preyear. In a time of high polit all parties thronged to hear him critical as Hazlitt, Wilberforce, (Hall, and Foster, could only app was moved to tears, and Wilbe his diary: "All the world is wild mers." The article on "Pan uted to the "Edinburgh Revie ly after his return to Scotland on the "Christian and Civic Ec Towns," which soon followed, was then the direction of his his aim by a thorough organizati old parochial system of Scotlar

liture was reduced in 4 years from £280 per annum. Every street and isited periodically by his agents and r economical, educational, and religes. In the great labor of effecting hial arrangement, Edward Irving, beginning of his career, was his asr. Chalmers had never ceased to asprofessorship in one of the Scotch s, and having successfully illustrated story views in his parish, in 1823 he call to the chair of moral philosophy ersity of St. Andrew's. In this office ed 5 years, and its literary results Lectures on Moral Philosophy," and n "Political Economy in connection ral Aspects of Society," which were sy published. He had given a new impulse to the studies in his departa in 1828 he was transferred from r's to the wider sphere of the chair of the university of Edinburgh, where d during the next 15 years. He carloquence and enthusiasm into the , which was filled not with students with clergymen of every church and of literary and scientific distinction, hear systematic theology propoundtilful a teacher. In 1838 he publishgewater treatise on the "Adaptation I Nature to the Moral and Intellectution of Man;" in 1838 he delivered f lectures in London in defence of ablishments; and after a short visit began an arduous tour through Scotcture and collect funds in behalf of ent which he had initiated of so ine number of churches in the country, eighborhood, nor even individual, without the discipline of religion. h as had never before fallen to a selesiastic, were now crowning his e was elected fellow of the royal Edinburgh, corresponding member of institute of France, and in 1835 redegree of D.C.L. from the univerford. He had become the acknowller of the evangelical party in the Scotland, and in 1832, when that ned the majority, he had received the nor which that church can bestow, appointed moderator of the general In 1834 this assembly, under the the ruling party, after declaring it nciple of the church that no minister struded into any parish contrary to the congregation, passed the famous" by which the displeasure of a mae male heads of families, being comshould be a bar to the settlement of

This act was chiefly the work of ers, and the resistance to it made him champions of a violent controversy tish church, and finally the leader of cession from it. Several nominees an rejected by parishioners, appeals

were made successively to the civil courts of Scotland and to the house of lords, and the result was that the veto act was declared to be contrary to the laws of the land. It was affirmed by Lords Brougham and Cottenham in their judgments that the church to which a minister was nominated had no legal right to look beyond his qualifications as to "life, literature, and morals." Thus the law of the church and that of the civil courts were at war, and confusion ensued. The crown rebuked and threatened the presbyteries if they refused to ordain vetoed nominees, and the churches were active in their own defence. The presbytery of Strath-bogie having decided by a vote of 7 to 8 to ordain a nominee where an overwhelming majority of the congregation dissented, the churches stopped the ordination by suspending the 7 ministers who formed the majority. Then the civil court declared the suspension null, and forbade all other ministers to preach in their par-ishes. In opposition to ecclesiastical authority the 7 suspended elergymen proceeded with the ordination, and in opposition to civil injunction Dr. Chalmers and other distinguished ministers preached in the interdicted parishes. Collisions became frequent, and the legislature devising no way to heal the breach, a disruption became inevitable; and at the meeting of the general assembly, May 18, 1843, 470 clergymen, followed by a large portion of the people of Scotland, withdrew from the established church, and constituted themselves into the "Free Church of Scotland," electing Dr. Chalmers for their first moderator. He thus necessarily vacated his chair in the Edinburgh university, and the subsequent 4 years of his life were spent in effecting the organization and stability of the new church, in performing his duties as princi-pal of the Free Church college which had been founded by its adherents, and in writing for the "North British Review," which was start-ed under his superintendence. Never was his statesmanlike and indefatigable character more conspicuously displayed than in his conduct of the movement which led to the erection of the Free church, and of the proceedings by which that church was securely established. He had but just returned from London, which he had visited for the purpose of enlisting the principal statesmen in support of his views on national education, when in the morning he was found dead in his bed, with the utmost tranquillity of feature and without sign of pain or struggle. The collected writings of Dr. Chalmers form 84 large 12mo. volumes, and in them all the problems which most strongly agitated the public, and especially the religious community, in his time are discussed. They embrace also lectures and commentaries on portions of the Scriptures. Yet the most important results of his life are not contained in his books, but appear rather in the ardor and energy which, whether as preacher or teacher, he com-municated to all with whom he came is contact, and in the important social and ecclesiastical reforms which he inaugurated. Both as a preacher and thinker he dwelt on the broadest and cardinal views of things. Many of his sermons were said to contain not more than one or two ideas, around which his mind would revolve as on a pivot, presenting the same object in a series of new and beautiful forms. He always retained his broad Scotch accent, and his vehement and chivalrous resolution and philosophic temper were mingled with a guileless simplicity and a profound sympathy with the habits and feelings of the Scottish poorer classes.

CHALON-SUR-SAONE, a town of France, department of Saone et Loire (Burgundy), on the river Saone, 215 m. S. E. of Paris; pop. in 1856, 19,911. The town is very ancient, being the Cabillonum of which Casar speaks in his Commentaries. It was pillaged by the Vandals, the Huns, and the Saracens, burned in 834 by the emperor Lothaire I., suffered severely during the civil wars of the 16th century, and not a little from the invasion of the allies in 1814. It is at the head of navigation on the river Saone, and is one of the principal stations

of the Paris-Lyons-Marseilles railroad.

CHALONS-SUR-MARNE, a city of France, on the river Marne (Champagne), 107 m. E. of Paris; pop. in 1856, 16,551. It was an important place when the Romans invaded Gaul, and was known as Duro-Catalaunum. Here in 274 the emperor Aurelian defeated Tetricus, his competitor. In its vicinity, probably between the villages of La Cheppe and Cuperly, was fought in 451 the tremendous battle in which the Romans under Actius, the Visigoths, the Burgundians, and the Franks united to oppose Attila. During the middle ages it numbered 60,000 inhabitants. During the civil wars of the 16th century, it burned the bulls of excommunication hurled against Henry IV. by Popes Greg-ory XIV. and Clement VIII. Chalons is the seat of a bishopric; beside a college, it contains several learned institutions, the most important of which is the school of arts and trades, where 450 pupils are maintained at the expense of the government. There are factories of coarse woollen stuffs and cotton hosiery.

CHALOTAIS, Louis René de Caradeuc de La, or La Chalotais, attorney-general at the parliament of Rennes, born there in 1701, died in 1785, struck the first blow at the Jesuits in France by publishing, in 1761, Le compte rendu des constitutions des Jésuites. In 1765 he was arrested for having, in common with other members of the Breton parliament, refused to vote in favor of some financial measures of the government. The persecution to which he was then subjected was attributed to the hostility produced by his action against the Jesuits. While in prison he wrote an eloquent and vindicatory memoir, and in the absence of writing materials, used a toothpick as a pen, and soot diluted in vinegar and sugared water as ink.

CHALUS, a small town of France, in the

department of Haute-Vienne (Lim the Tardouère, 16 m. N. W. of & pop. 2,200. It is divided by the riverupper and lower town, in the former of are the remains of the castle of Chabral sieging which Richard Court de Lica we tally wounded in 1199. Near it is if ruined fortress of Montbrun.

CHALYBÄUS, HEINEICH MORTE, R
of philosophy at the university of
1839, born July 3, 1796, at Pfaffrola, m.
graduated in 1820 in the divinity m
Leipsic, and officiated as private test
professor at Vienna, Meissen, and I
until 1839, when, chiefly owing to the
tion established for him by his work!
Historical Development of Spe
losophy, from Kant to Hegel "(Dresse
he received his present appointmen
university of Kiel. He has since
variety of other writings, the m
of which is his "System of Speculative
(Leipsic, 1850). A later work, entitle
other and Christianity." appeared in

ophy and Christianity," appeared in CHALYBEATE (Gr. xalwy, steel bes, a Scythian race that worked name now applied to waters and which contain iron. It generally them in the state of the carbonate c oxide, which is soluble so long as of carbonic acid is present; as this i the protoxide absorbs oxygen, and is into an insoluble hydrated sesqui-o: falls down as a yellow ochreous powe beate waters possess a styptic taste the characteristic reactions indica presence of iron by the addition of 1 of ferrocyanuret of potassium. In 1 springs that might claim this 1 The most important o common. those of Bedford and Brandywine in nia. Arsenic and copper are foun in the sediment of chalybeate sp. appear to do no harm, on acce dotal properties of the oxide of are

CHAM, the pseudonym of Amea a French caricaturist, born in Par 1819, who adopted the name Chone of the sons of Noah, his fat Noé (Noah). The son of a peer of attended the polytechnic school; behis artistic inclinations, he became Delaroche and Charlet, and has a tinction as a caricaturist by his sphumorous contributions to the Paris and by the publication of several be catures.

CHAMA (Gr. van, to gape), a lamellibranchiate bivalves of the mida, which includes, moreo monopleurs and diceras, all in inequivalves shells, one of which mother 1 tooth; the foot is ll a corresponding pedal orificator muscles, they belo withe and, like the kindred

iphons and are marked by a simple By Linnæus, Cuvier, and De Blainus was made of great importance, my shells now transferred to other le giant clam, tridacna gigas, was (see CLAM).

RLAIN (Fr. chambellan, Lat. camofficer attached to royal courts, lishments of the great. The word ly a person having care of apartin its early acceptation was so At present the duties of the office or limited to such easy service as the person of princes. Formerly d so many perquisites that it was ndividuals of noble families, and ne one of the grand offices of the title of "grand" was added to he chamberlains of sovereigns from er dignitaries. The earliest officer in France was appointed by Louis y-nine chamberlains followed in Il the time of Louis XIV., when was suffered to lapse. Napoleon office. Formerly the chamberlain to the king's cast-off garments, as he cloaks of vassals who came to to the sovereign. The office of amberlain ranks 6th in honor at ourt, there being also a lord chamne sovereign's household, with nu-ordinates. The grand chamber-of France and England, assist in sovereign for the ceremony of coroe chamberlain of the household the interior of the palace, appoints naplains and tradesinen, and is also plays. In Anglo-Saxon times the was called the camerarius, and had e king's treasure. The chamberopean courts wear a golden key as of their office. Various munician officer whom they style chamwhose duties have reference to the ccounts of the body to which they

RLAYNE, EDWARD, an English at Odington in Gloucestershire, at Chelsea, a suburb of London, lucated at Oxford, he made the pe during the civil wars. In 1679 nted tutor to Henry, duke of Grafson of Charles II., and afterward corge of Denmark, the husband nne. He is best known by his titim, or the Present State of English or the first edition appeared in lay in his history makes frequent this book.

RLEN, Hugh, an English phyin 1664, died June 17, 1728, was a Cambridge, where he obtained his D. in 1690. The invention of an eps is commonly attributed to him, father, Dr. Paul Chamberlen, is ave been the real inventor. CHAMBERS, an E. co. of Ala., bordering on Georgia; area, 775 sq. m.; pop. in 1850, 28,960, of whom 11,158 were slaves. It is partly bounded on the E. by the Chattahocchee river, and intersected by the Tallapoosa. The surface is hilly, and most of the land productive, having yielded, in 1850, 17,442 bales of cotton, 876,038 bushels of corn, 166,075 of sweet potatoes, and 118,962 of cats. There were 41 churches in the county, and 1,466 pupils attending public schools. Capital, Chambers Court House.

CHAMBERS, EPHRAIM, an English cyclopedist, born at Kendal, in Westmoreland, died at Islington, May 16, 1740. The son of a Presbyterian freeholder, he received a commercial education, and formed the project of the cyclopedia which bears his name while apprenticed to a globe-maker in London. Some of the articles are said to have been written while he tended his master's counter. The 1st edition of his "Cyclopedia" was published by subscription in 1728, in 2 vols. folio; the 2d enlarged edition in 1738, and the 3d in the following year. This work was avowedly the basis of the more extended cyclopedia of Rees, and was early translated into the French and Italian languages.

Italian languages.

OHAMBERS, GEORGE, an English artist, born near the end of the last century at Whitby, in Yorkshire, died in London, Oct. 28, 1840. The son of a poor seaman, at the age of 10 years he sailed in a trading vessel as cabin-boy, and was soon noted among his measmates for his rude sketches of ships and marine views. With the determination to become a marine painter, he left the service, and after 3 years' private practice, during which he supported himself as a house-painter, he went to London, and was employed by Mr. Horner for 7 years to assist in preparing the panorama of London exhibited in the Colosseum. He afterward obtained commissions for marine sketches from many distinguished persons, and painted the "Opening of New London Bridge" for King William IV., and a view of "Greenwich Hospital" for Queen Adelaide. His appointment as marine painter to their majesties had opened to him a way to fame and fortune, when his delicate physical constitution failed him. His works, several of which are naval battle-scenes, are highly valued.

CHAMBERS, Sie William, an English architect, born of a British family at Stockholm, in Sweden, in 1726, died in London, March 8, 1736. He was educated at Ripon, in Yorkshire, and while very young went as supercargo to the East Indies, resided for some time in China, and brought back many drawings of Chinese buildings and costume, which were afterward published. He then devoted himself to the study of architecture, and on returning from travels in France and Italy was appointed drawing master to the prince of Wales, afterward George III. He laid out the royal gardens at Kew in the Chinese style, and built the villa of the earl of Besborough at Rochampton, in the Italian

acea to an Eamourgu printer, while reovers, failing to get the collegiate education which he had desired, entered upon the career of bookseller on his own account. Until 1882 the brothers conducted separate establishments, and their struggles during the period when the yet anonymous Waverley novels, the criticisms of Jeffrey, and the sketches of Christopher North were distinguishing Edinburgh as a literary centre, are eminent examples of energy and diligence. William eked out the profits of a small trade by working at case and press him-self, and in 1680 published his "Book of Scotland," an elaborate and comprehensive account of the usages and institutions, the schools, social system, and religious and civil organization of that country. Meantime Robert, sharing in the enthusiasm which was then introducing the national element so largely into Scottish literature, had published in 1824 his "Traditions of Edinburgh," an authentic, detailed, and amusing account of the old memories and associations with which the various localities of that capital are rich. It was dedicated to Sir Walter Scott, who had communicated to him interesting

materials for it. This was rapidly followed by

his "Popular Rhv: s of Scotland." "Picture

attributed the authorship of the Natural History of Creat markable for the force with w the so-called development the Chambers has contributed no the "Journal," has given his tour in the United States in "Things as they are in Ameri published a work on "Improve for the Humbler and other (The publishing house of the is one of the largest in Scotl nearly 200 persons.
CHAMBERSBURG, a thricapital of Franklin co., Penn.; It is pleasantly situated or creek, and at the junction of Valley with the Franklin railr pike roads connect it with burg, and Philadelphia, and cates by railroad with Phil burg, &c. The houses are n stone, and the gene appear is neat and comfu

volume enritied .. Wherein each

trative of Changes of the R the Sea and Land." To his

pipes of red wine, which ranks growths of Burgundy.

, or SAVOY PROPER, the most part of Savoy, an administrasardinia, and one of the 7 provthe duchy of Savoy is divided, its, viz.:

	Area, sq. m.	
	634	152,468
	877	50,872
	798	64,289
	706	45,728
u	2,515	818,802

e capital of the above-described wince, and of the whole duchy the most important town in ed in a fertile valley on the see and the Albane, affluents of urget, on the Victor Emanuel Innocent to Aix and St. Jean mneeting Turin with Geneva, is, 110 m. W. N. W. of Turin. 1,000. It has long been remanufacture of silk gauze, and anufactories of cotton, tanneles in grain, silk, wine, liquors, or, and has 6 annual fairs. The ttes, once the residence of Mme. has been made celebrated by nfessions," is situated near this

a S. co. of Canada E., on the he St. Lawrence, opposite the al, and extending E. as far as n by the names of Chambly, and St. John. Area, 211 sq. 1-'2, 20,576. It is traversed by and Montreal, and the Grand

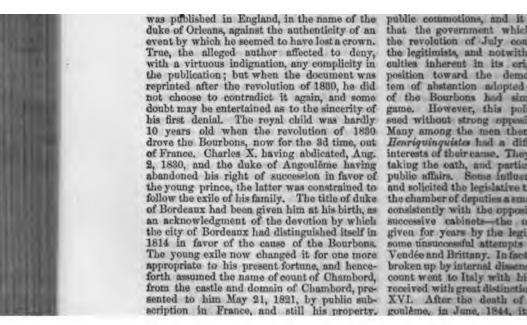
The staples are grain, hay, to-wool, and the productions in to 115,287 bushels of wheat, 243,819 of oats, 5,461 of In-7 tons of hay, 12,502 lbs. of of wool, and 245,094 of butter. ist, 3 saw, and 2 fulling mills, y, 4 tanneries, 2 founderies, 1 haper mill, 41 schools, and 13 mbly, a parish and village of bed county, situated on the W. I river, and connected by canal

It has the remains of a fort rench in 1711, and contains a 4 grist mills, about 56 stores, urches, a convent and female 1 pupils, an asylum for deaf and ans with 15 inmates, a college and having 8 professors and Pop. of parish and village in of village alone, 698.

, a village, pop. about 400, in artment of Loire-et-Cher, 9 m. is noted for a château of its sunded by a beautiful park, 21 nnce. The counts of Blois had odge and pleasure house built added to the possessions of the

crown by Louis XII., and torn down by Francis I. to make way for the present magnificent structure, which was commenced in 1526, after designs by Primaticcio. For 12 years Francis prosecuted the work with great vigor, and died leaving it unfinished and his treasury half empty. It was continued with less activity by Henry II., Charles IX., Henry III., Louis XIII., and Louis XIV., but the original plans were never carried out. The style of architecture, which marks the transition from the fortified castle to the Italian palace, is a fine specimen of the prevailing taste of the 16th century, and though fantastic in some details, is, on the whole, grand and imposing. The material is a very dark stone. From a solid basement, flanked by 6 round towers, each 60 feet in diameter, rise clusters of pyramids, cones, and turrets, with a large central tower crowned with a beautiful lantern, on which is a stone figure 6 feet high of the lily of France. This tower contains a double spiral staircase, so curiously contrived that persons ascending never meet those descending. There are 440 chambers, once decorated by the pencil of Cousin and the chisels of Bontemps, Gonjon, and Pilon. The stables have stalls for 1,200 horses.—The early history of Chambord is little more than a chronicle of royal debaucheries. Built, it is said, to commemorate the passion of Francis for the countess de Thoury and the fair chatelaine de Montfrault, and exhibiting in the form of caryatides the features of 2 of his other mistresses, the duchess d'Étampes and the countess de Châteaubriant, it preserved its character under several succeeding reigns. It was here that the beautiful but faithless Diana of Poitiers achieved more than one of her conquests, and the letters H. and D. entwined with a crescent, which still fill the compartments of the vaulted ceilings, attest her ascendency over Henry II. Charles IX., Louis XIII., and Louis XIV. held their court here with equal licentiousness and splendor; and at a fête given by the last named monarch in 1690, one of the grand corridors was converted into a theatre, in which Molière gave the first representation of his Bourgeois gentilhomme. Chambord afterward became the residence for 9 years of Stanislas Leszczynski, king of Poland. In 1745, Louis XV. bestowed it upon Marshal Saxe, who restored much of its former brilliancy and lived there in military state, attended by 2 regiments of his lancers. After his death, and that of his nephew the count de Frise, the chateau reverted to the crown; it was bestowed upon the Polignac family by Louis XVI. in 1777, plundered by the mob in 1792, and sold as national property. Napoleon gave it to Marshal Berthier in 1809, from whose widow it was purchased by the loyalists in 1821, and presented in the name of the nation to the duke of Bordeaux.

CHAMBORD, HENRI CHARLES FERDINAND MARIE DIEUDONNÉ D'ARTOIS, count of, born in Paris, Sept. 29, 1820, the only son of the duke of Berry, and therefore the last remaining scion



public commotions, and it that the government which the revolution of July con the legitimists, and notwith culties inherent in its orig position toward the demo tem of abstention adopted of the Bourbons had sim game. However, this poli sued without strong opposit Many among the men then Henriquinquistes had a diff interests of their cause. They taking the oath, and parties public affairs. Some influen and solicited the legislative to the chamber of deputies a sme consistently with the opposi successive cabinets—the migiven for years by the legisome unsuccessful attempts Vendée and Brittany. In fact broken up by internal dissens count went to Italy with his received with great distinction XVI. After the death of

been otherwise prevented from tribute of their homage to their ince; and for some time, the capitish empire was peacefully invaded adherents to the principle of legitevoted partisans of its representamembers of the chamber of depit consider it irreconcilable with play a prominent part in this maninst the established government The majority of their colleagues rwise; and after an animated and iscussion, censure was inflicted on t by the address of the chamber in he speech from the crown. puties appealed from the judgment s to the decision of their constit-

ined them by a reelection, and soon subsided, without any great amage to any body. On Nov. 16, unt of Chambord married Maria ice Gaetana, princess of Modena, 1817, and therefore 8 years older

This union has remained sterile, ring been born of it to save the use from annihilation. It seems, Providence had doomed to destrucy party which invokes most tenaexclusively the protection of its

The political inheritance of the destined to pass to the young count grandson of Louis Philippe, whom ts regard as a usurper.—After the is Philippe in exile, the community s suggested to the vanquished on ie idea of a reconciliation between s of the two royal families. Some ented; messages and visits were and some interested politicians ex-: they considered already a decisive a better state of things. Indeed, Chambord seemed decided to take asure toward regaining the crown When an opportunity, apparently ble, had presented itself after the of June, 1848, in Paris—and later, agitations and disquietudes of the e inactive pretender had let pass which another claimant took adboldly to build up an imperial was against this intrusive interest, ork for the foundation of a new t the political fusion of the two the Bourbon family was aimed. ed by the decided opposition of the Orleans, whose influence with her amount. Faithful to the memory 1d, the noble widow conformed heristructions of the duke of Orleans. itten in his last will: "Whether a inknown and obscure defender of a ch we all belong, the count of Paris everything, to be a man of his he nation—a Catholic, and the paslusive servant of France and the

How and on what terms the pas-

sionate and exclusive servant of the revolution could join in a common cause with the representative of the principle of legitimacy, irrespective of the popular sanction, it was impossible to understand. Some other obstacles also arose from delicate questions started in the discussion of a common political platform. The royal cousins could not agree, nor their counsellors, on the adoption of an intended national flag, the one party advocating the white banner, the other standing by the tri-color. So the proposed scheme was abandoned after some useless efforts, based more on common interest than on mutual sympathy.—The count of Chambord resides alternately in Venice, where he owns the beautiful Cavalli palace, and in the castle of Frohsdorf, near Vienna. In the summer he is accustomed to repair to some watering place, like Ems, Wiesbaden, &c., in the neighborhood of France, where he receives the disinterested respects of numbers of his faithful partisans, who are delighted with his affable and graceful reception, and charmed with the happy qualities which he possesses as a man. Were it not for certain unfortunate influences which have constantly surrounded and still surround him, his natural gifts would have shown more advantageously; as it is, through the delusions of his present life, and the ordeal of contemporary events, each passing day is more likely to leave with him a new regret than to bring him a new hope.—Physically the count of Chambord is rather below medium stature, with a short neck, broad shoulders, and a full chest, conveying the impression of strength rather than of diguity. At the age of about 15 years, he had a severe fall from his horse, from the lameness caused by which he has never entirely recovered. He is nevertheless very fond of manly sports, and pursues them in a princely manner. His features are handsome, of the Bourbon type, with blue eyes, light hair, mustache, and whiskers. His fortune, which was originally large, has been much increased by his marriage with one of the richest princesses of Europe, and by the inheritance of the duchess of Angouleme, from whom he received the estate of Frohedorf, which belonged originally to the duke of Blaca

OHAMBRAY, GEORGES DE, marquis de, a French general, born in Paris in 1788, died about 1850, served in the Napoleonie wars, fell into the power of the Russians, was banished to the Ukraine, and not permitted to return to France until after the fall of Napoleon. From 1823 to 1829, he filled high military positions at Vincennes and Perpignan. He wrote various works on military subjects. A 2d edition of his Philosophie de la guerre appeared in 1835, and a "Life of Vauban," written by him, appeared in the Plutarque Français. His most important production is his Histoire de Tempidition de Russia, which appeared in 1837, and has since passed through several editions.

CHAMBRE ARDENTE. Originally this name was applied in France to courts of law, hung with black, but lighted by torches, where originals

parcels, one of 2 and the other of 3, each united by the skin as far as the claws. The tongue is fleshy, cylindrical, and capable of an elongation of 6 or 7 inches; the teeth are trilobed; the eyes are large, almost covered by the skin, except a small hole opposite the pupil, and are capable of movements independent of each other. The back of the head is raised in a pyramidal form; there is no visible external ear; the first rib is united to the breast-bone, the rest being continued to their fellows of the opposite side, enclosing the abdomen in an entire circle. The lungs are large and admit of great inflation. The most common species is the chameleo vulgaris (Lac.), so well known to travellers in Egypt and northern Africa. Many other species are described from the Sechelles islands, Isle of Bourbon, Isle of France, and Cape of Good Hope. The chameleon is well described by Aristotle in his "History of Animals." The name is derived from the Greek, and signifies little lion, or, as some maintain, camel lion. There is probably no animal about which more prejudices and errors have existed from the remotest antiquity than the chameleon. The 2 most remarkable faculties attributed to it are those of being able to

often seen of the same color objects, which they doubtle ively as a means of protects numerous enemies. The cha inflate its body, even to its slow and irregular motions; t degree may aid the muscular the skin in the production of face changes. The chamele slowly; it will remain for da of a tree, to which it fixes itse means of its peculiarly divided sile tail. This slowness of mc sence of all defensive and of render them an easy prey t Whether upon a tree or on tl most disagreeable and awkwi native Africans and Asiati chameleon a harmless creatu them in their dwellings on a sect pests they destroy. Whe they are very gentle, but ti with each other, slowly open their jaws, like the blades of s ludicrous manner. The ferms dozen eggs, which she depor leaving them to be batched by

CHAMIER, FREDERIC, an English novelist,
born in London in 1796. His forte lies in sea
tories of the Marryat school. The most popular of his works are "Ben Brace," "The
Arethusa," "Trevor Hastings," "Passion and
Principle."

CHÂMISSO, Adelbert von (Louis Charles ADELAIDE DE CHAMISSO DE BONCOURT), a German author, born Jan. 27, 1781, at the château of Boncourt, Champague, France, died in Berlin, Ang. 21, 1838. At 9 years of age he accompanied his family to Berlin, and entered the Prussian army as lieutenant in 1798, but left it 1806. He returned to France and devoted himself to the study of natural history, his acquaintance with Madame de Stael and her Learned circle having turned his attention in that direction. From 1815 to 1818 he accompanied the expedition set on foot by Count Romanzoff in a voyage of discovery around the globe. On his return to Berlin he received an appointment at the botanical garden. He published 2 botanical works, and 2 works connected with his journey round the world, also a treatise on the Hawaiian language. In conjunction with Gaudy he translated a selection of Béranger's songs into German. Many of his lyrical productions appeared in the Musenalmanach, which he and Varnhagen von Ense edited from 1804 to 1806. His literary reputation in Germany rests more upon his lyrical poems, which take up one-third of the 6 volumes of his collected works. Out of Germany he is principally known as the author of "Peter Schlemihl"the story of a man who had lost his shadow. This book was published in 1814, through the agency of his friend Fouqué, and passed through many editions.

CHAMOIS, or GEMS (antilope rupicapra, Pallas), the mountain or Alpine antelope of Europe, and the only animal of that geographical division which partakes in any degree of the character of the antelopes. It is found in the Pyrénées, the Alps, the Carpathian and Grecian mountains, the ranges of Caucasus and Taurus, the heights of the Himalayas, and perhaps in other situations of similar character. The chamois is rather more than 8 feet in length, and a little above 2 feet in height. Its smooth black horns are about 6 inches long, rising nearly perpendicularly from the fore part of the brow, abruptly hooked backward at their extremities, and nearly parallel through their entire extent. It is beardless, but the body is covered with a short thick fleece of fine wool, to protect the animal from cold, and also with long and silky hair of a deep brown color in winter, brown fawn color in summer, and slightly mixed with gray in spring. head is silvery yellow, the inside of the thighs and ears white, and the tail black. A small black band winds from the corner of the mouth around each eye. The kids are of a Impatient of heat, the deep yellow color. chamois remains in the summer on the loftiest ridges, or in snowy valleys, clipping for its food

the mountain herbs and the tender shoots of shrubs, and rarely drinking. It is remarkable for its agility, and for its keenness of sight and smell. It scents a man at a long distance, is at once thrown into great agitation, and flies at its utmost speed on his first appearance. bounds from rock to rock with an admirable grace, and ascends and descends cliffs which few other animals would attempt. It is more closely allied to the prong-horn (antilope Americana) than to any other species of antelope. The structure and form of their horns are nearly similar; and the pelage of each of the two animals is peculiar, though not identical. It is, in some respects, a connecting link between the true antelopes and the goats, although far more closely allied to the former. The chamois is easily tamed, and becomes very familiar and fond of the persons who feed it. The venison is but moderately good, bearing some resemblance to that of the roebuck, but inferior in flavor and quality. The skin is dressed into a fine light leather, in use for under-garments, and for cleaning plate, glass, and the like; though but a small quantity of what is sold as chamois, or, as it is usually termed, shammy leather, is actually made from the hide of this animal.—Of all sports, the pursuit of the chamois is the most difficult and perilous. Even the trade of the samphire gatherer, or that of the egg plunderer of the Hebrides and Orkneys, sinks into insignificance and tameness beside that of the chamois hunter, amid the interminable and awful solitudes of the upper Alps. Of all sports, also, it is the least profitable, so rare is the beast becoming even in his most difficult and remotest haunts, so small, comparatively, are the chances of success, and so little

the value of the game when taken. CHAMOMILE (Gr. $\chi a\mu a\iota$, on the ground, and $\mu \eta \lambda o\nu$, apple; anthemis nobilis, Linn.), a plant indigenous in the south of England, and widely cultivated in gardens for medical use. Its leaves and daisy-like flowers emit a strong perfume when trodden upon. The flowers have long been famous as an aromatic bitter. A tepid infusion of them, known as chamomile tea, is often employed as an emetic. They are used externally as fomentations in colic and intestinal inflammation. Chamomile is naturalized in many parts of Europe, and in the state

of Delaware.

CHAMORRO, Fruro, a soldier and statesman of Central America, born in the city of Guatemala in 1806, died March 12, 1855. He belonged to one of the oldest and most wealthy Nicaraguan Spanish families. In 1823, when a student at the university, he fought as a volunteer against the insurgent soldiers, who were endangering the first national constituent assembly. His public life began in 1836 as a representative to the legislature of Nicaragua. As a member of the constituent assembly, which met in 1838 for the reform of the organic law, he aided in establishing the oriental university at Granada. He was elected, under the

and the recommendation of Onamorro that this Occusion is misco & notice item be reduced produced discontent on the part of the soldiers. He sought to secure the harmony of the ministry by resigning his place; but (Aug. 4, 1851) a rebellion broke out, which ended in the expatriation of Pineda. legislative chambers at Managua immediately elected Chamorro general-in-chief, with pow-ers to collect a force and march upon the malcontents. The revolutionary attempt was chiefly supported by Gen. Muñoz, who was obliged after one victory to surrender with his officers and men to Gen. Lope, by whom they were transferred to Gen. Chamorro. Though exposed to the penalties of treason, the safe conduct which was guaranteed to them at their capitulation was respected, and they were permitted to leave the state. In 1853, Gen. Chamorro was chosen to succeed Pineda as supreme director, and he strengthened public credit by his plans of reform. A conspiracy was detected in 1854, and the conspirators, having taken refuge in Honduras, soon invaded Nicaragua with a large force from that country. They were Blanc is obtained; to the mands the whole of the or met by President Chamorro, who was defeated and obliged to fall back upon Granada. There

he was heriaged 981 days when the ingregant

on the other side of the cattle till autumn. The se ever since public attention 1741 by the English trave Pocock, has attracted thou ery season. From the boti fined by the proximity of t rise on the W. to a height the sea, and on the E. to feet. The latter, among w are clad with perpetual s to the glaciers which form features of the valley. I called the Mer de Glace, is 6 m. wide, and from 80 to is broken by many crevic through which may be a purity and deep blue color There are 5 or 6 glaciers which approach close to 1 Beside visits to the glacie other interesting excursion to the Flegère, whence

Cal da Balmas ta tha

wuni, or La Prieuré. The village is supported nly by tourists, to whom it presents many itions and conveniences.

C.AMP DE MARS, the name given to the ual meetings held by the Frankish tribes took possession of Gaul during the 5th tary. They were called in Latin Placita, the Frankish appellation was Máls. These etings were sometimes military reviews, or national assemblies, where all the freen armong the Franks gathered to pay homage the supreme chief of the nation; sometimes cial assemblies of the lords and warriors, led by the king to consult upon some miliexpedition, or of the bishops, to take their upon some point of general policy and some interior difficulty. Under the first lovingians, the time of these meetings was ged from March to May, whence they were led Champ de Mai.—CHAMP DE MARS is also Dame of an immense oblong square, situated the outskirts of Paris, between the école miliand the Seine, and especially devoted to the drilling of troops and those great military Pageants which the French are so fond of. 8,280 feet long by 1,640 wide, is flanked by ditches faced with stone, has 4 rows of trees each side, and is entered by 5 gates. Brat great feast of the French revolution, the de la fédération, was celebrated here. that occasion, the place not being ready, the Population of Paris, of both sexes and all ranks, by the day, July 14, 1790. The following Year, the place was the scene of a dreadful assacre ordered by the leaders of the constiutional party. In 1793, the accepting of the Constitutional act voted by the convention; in 1794, the feast of the Supreme Being, with Robespierre as its leading performer; in 1796, the rejoicings on account of the taking of Milan by Bonaparte, took place there. On June 1, 1815, Napoleon held there the great assembly, known as the Champ de Mai, for the acceptance of the supplementary act to the imperial constitution. Here in 1827 the review was held in consequence of which the Paris national gnards were disbanded by Charles X. The republican feast of agriculture and industry was celebrated there in 1848.

CHAMPAGNE, an ancient province of France, which, previous to the revolution, constituted one of the great general military governments of the country, and was divided into 8 principal districts, viz.: Champagne proper, Le Rémois, Le Rethelois, La Brie-Champenoise, Le Perthois, Le Vallage, Le Bassigny, and Le Sénonais. For a long time it was governed by native princes, and was united to the crown of France at the beginning of the 14th century. At present Champagne is distributed among the departments of Aube, Marne, Haute-Marne, Ardennes, and part of the departments of Scine-et-Marne, Aisne, Yonne, and Meuse. Now, as then, Champague is chiefly celebrated for its wines. It contains in all about 52,437 hectares or 125,-

000 acres of vine-growing land. That of the present department of Marne, however, alone produces what is technically known in com-merce as champagne wine. The department of Ardennes, which occupies the northern part of the province, produces, in average seasons, about 80,000 hectolitres, or 1,760,000 gallons of a common red wine, which is exclusively consumed by the inhabitants. The best of it is wanting in body, spirit, and color, and will not bear exportation or keeping. The department of Haute-Marne, in the southern portion of the province, produces about 600,000 hectolitres, or 13,200,000 gallons, of which about one-half is consumed in the department, the remainder being sold to the neighboring arrondissements. The quality of the wines is superior to those of Ardennes in delicacy, flavor, and hardiness. The dein delicacy, flavor, and hardiness. The de-partment of Aube, which forms the S. E. por-tion of the province of Champagne, and the N. E. portion of that of Burgundy, yields about 580,000 hectolitres, or 12,500,000 gallons of red wine, the larger portion of which is reserved for home consumption, the rest finding a market as vin ordinaire. The better classes of wine are strong-bodied and heady, requiring to be kept at least 2 years before they are fit for use. Some white wines are also produced in this department, which are highly esteemed for their lively, spirituous, and agreeable qualities. The department of Marne, which forms the most important portion of the province, geographically as well as commercially, has about 20,000 hectares, or 46,000 acres of vineyards, which are divided among 27,000 different proprietors, and yield on the average about 700,000 hectolitres of red and white wines, one-third of which, principally the former, is consumed within the department, the balance forming one of the great staples of the commerce of the district. This department is divided into 5 arrondissements, viz., Châlonssur-Marne, Epernay, Rheims, Sainte Ménéhould, and Vitry-sur-Marne, of which Rheims and Epernay contain the most celebrated vineyards. The vines most in vogue are: for red wines, & petit plant doré, le pineau, le perlusot, and le couleux; for white wines, le blanc doré, le petit blanc, le chasselas, and le gros plant vert. White and black varieties of grape are cultivated indiscriminately in vineyards destined to furnish white wines, the mixture being deemed necessary for the perfection of this style of wines, especially those denominated sparkling. In an exceedingly propitious season, however, the black grapes are apt to impart too much color to the liquor in the process of pressing; but as they produce still and creaming wines, superior in many necessary requisites to the white grapes, they are more generally employed, although great pre-cautions are required to prevent this from occurring, not only by choosing the healthiest and ripest grapes, but also by discarding all green, dry, and spoiled berries.-When the vintage



tablishment, which, after being thoroughly commingled and amalgamated, is allowed to settle, and is then drawn off into bottles, which are placed in racks so constructed that each bottle can be raised or lowered, so as to lie perfectly flat, or stand almost perpendicular. Up to this moment, the wines are rarely tampered with by the introduction of either sugar or brandy, but, in adverse seasons, those substances are sometimes necessary to enable them to undergo the operation of a secondary fermentation, without which it is impossible to make them sparkle or mousser. This process ordinarily commences during the month of June, and continues the whole summer, pending which, especially when the grapes begin to ripen, or in stormy weather, immense loss is sustained by the bursting of the bottles, and the consequent escape of the liquor. After a lapse of 18 months, during which the carbonic acid gas is generated by means of the suppressed fermentation, a thick muddy deposit is precipitated to the neck of the bottle, which has gradually been raised to a standing position, and the wine becomes perfectly clear and limpid, having a very light straw color, and in this state it will remain unchanged for years. When required for exports.

This beverage, although factitic er place in popular regard than is justly esteemed by the ams cian, and the refined epicura qualities and agreeable sweethe first; its diuretic and strengties rendering it valuable to its full flavor, delightful aroms bouquet, endearing it to the that Rheims, the business centry varies from 2 to 5 franca pething included; and in the vest the maximum price has rarely

thing included; and in the ver the maximum price has rarely CHAMPAGNE, or CHAMP DE, a Flemish painter, born in I 1602, died in Paris, Aug. 12 paired to Paris at the age of having enjoyed the instruction guished master, yet acquired tion for his portraits and coloring is excellent, and his great merit. His best picture at Vincennes, and in the churcites at Paris. One of his best of himself, now in the Louvre.

t, he received the department of foreign rs, which he kept until 1811. He followed poleon in the campaign immortalized by the le of Wagram, and contributed to the treaty eace which had for its result the marriage the conqueror with the archduchess Marie ouise. He proposed also the annexation of Iolland, the Hanseatic towns, and the duchy of auenburg to the French empire; but lost his portfolio in 1811, for having misunderstood his naster's intentions toward Russia. Louis XVIII. de him a peer, but he adhered to Napoleon

the Hundred Days, and was dismissed the battle of Waterloo. In 1819 he was de a peer again; in 1830 he adhered to the

vernment of Louis Philippe.

CHAMPAIGN. I. A.W. central co. of Ohio, inected by Mad river, and traversed by two rails; area about 890 sq. m.; pop. in 1850, 19,762. surface is level or undulating, and the soil Productions in 1850: 964,617 bushels orn, 225,808 of wheat, 170,997 of oats, and 11,870 tons of hay. There were 84 churches, and 4,780 pupils attending public schools. Capital, Urbanna. II. An E. co. of Ill., area about 380 sq. m., comprising a part of the Grand Prairie; pop. in 1855, 6,565. The surface con-sists of an open plain of great fertility, inter-

d with small clusters of trees. The prosons in 1850 amounted to 441,060 bushels us corn, 38,850 of oats, 1,406 tons of hay, and 53,710 lbs. of butter. Capital, Urbanna.

CHAMPE, John, an officer in the war of the American revolution who gained distinction by his efforts to seize Arnold after his treason, born in Loudon co., Va., in 1752, died in Ky. near the close of the 18th century. He was selected from Gen. Lee's regiment by request of Washington, to go to New York as a deserter and spy, and if possible to seize and bring off Arnold in time to save the life of André. Champe undertook the enterprise with courage, passed the American lines with difficulty, was hotly pursued by his comrades as a deserter, reached New York, underwent an examination before Bir Henry Clinton, and by him was consigned to Gen. Arnold, who gave him in the British army his former rank. He discovered the custom of Arnold to walk in his garden at a late hour every night, formed a plan with a comrade to seize and gag him there, and to take him between them as a drunken companion to a boat on the Hudson, whence arrangements were made for his speedy transportation to the American head-quarters. On the appointed night Arnold failed to appear in the garden, and Champe after waiting for him till near morning returned with deep chagrin to his position in the British army. It proved that Arnold had the day before changed his quarters, preparatory to the embarkation of his troops for Virginia. There was nothing left for Champe but to embrace the first opportunity to escape to the American army, which he did soon after landing in Virginia, and joined the troops under Gen. Greene. Gen. Washington discharged him from

further service, lest, falling into the hands of the enemy, he should be immediately put to death upon a gibbet. When subsequently Washington sought for him to reward him for his faithful and dangerous service, he learned of his recent

death in Kentucky.
OHAMPERTY (compi partitio), an agreement to divide land which is the subject of a suit, or the title to which is involved in controversy, in consideration of which the suit is to be carried on by the person who makes the bargain with the owner or claimant of the land, The term, however, is now applied to any suit, whether relating to real or personal estate, and champerty may be defined to be any agreement for the division of what shall be realized from a suit, in consideration of services to be rendered or money advanced on account thereof. In a popular sense it also includes the purchase of lands from a claimant who is not in possession, and the purchase of choses in action, for the purpose of bringing suit upon them, though neither of the two latter cases is strictly what is designated etymologically by the word; there being in fact no division of the subject. but a mere purchase on speculation. Maintenance was the aiding another in the prosecution of a suit, and if it was in consideration of receiving a part of what should be recovered, it constituted champerty. The distinction between maintenance and champerty was, that maintenance was the aiding or abetting the prosecution of a suit, whether for a part of the thing in suit or not; if a part of what should be recovered was to be received by the person aiding in the prosecution, then it was champer-ty. By old English statutes it was forbidden to aid a party to a suit in the prosecution or defence of the same, or to purchase a suit, or the right of suing. It was, however, permit-ted to aid a near kinsman, servant, or poor neighbor, from the mere consideration of relationship or charity. The evils sought to be remedied were: 1, officious intermeddling with controversies for the sake of some gain to be derived therefrom; 2, siding a party from some motive of hostility or ill feeling toward the opposite party. At a time when the administra-tion of justice was somewhat loose, and the minds of judges and juries could be acted upon by the influence of persons of some consideration, such interference with suits in aid of either party was a vicious abuse, and was by law declared to be a misdemeanor. As to the getting hold of claims to prosecute, whether by purchase or with an agreement to divide, it seems to have been practised by attorneys; and in addition to the general prohibition of maintenance, there was a special provision applying to attorneys. Then as to claims to land by persons out of possession, it was by statute pre-scribed that no one should buy or sell unless the vendor had been in possession or received the rents a year previous. Similar prohibitory laws have been generally adopted in this country, and in some states, as in Massachusetts,

where there was no statute on the subject, champerty has been held to be an offence at common law. In the state of New York an innovation was first made by allowing a person claiming title to lands, possession of which was held adversely, to execute a mortgage of such lands, which would be valid and have preference over all subsequent judgments against, or mortgages, &c., executed by the mortgager, in case he should ultimately recover title. The courts of should ultimately recover title. that state have also made an exception as to conveyances of lands held adversely, if such conveyance was in pursuance of a contract entered into before the adverse possession commenced. Lastly, in respect to attorneys, the code of practice of New York authorizes a bargain between attorney and client as to compensation for the prosecution or defence of a suit, and this is understood to warrant an agreement that the attorney shall have part of what shall be recovered. It was a very ancient rule of the common law that choses in action should not be assigned, the object of which rule was to prevent any champertious intermeddling with claims to be put in suit; but courts of equity long since recognized the right of the assignee, and no other effect of the rule remained except that it was required that a suit at law should be brought in the name of the assignor. But this has now been abrogated in the state of New York, as well as many other states, and a suit must be brought in the name of the real party in interest.

CHAMPION, a term derived from chivalry. and signifying one who undertakes to defend his cause by force of arms. Custom allows a wider latitude of application to the word. In the ruder stages of society, when might constituted right, the right was frequently submitted to such an arbitrament. The two elements which then chiefly entered into the social system, namely, religion and love of military glory, both inclined toward a ceremony in which God should be called to indicate the righteousness of the cause by success in the trial by battle. Accordingly, we find from the earliest ages of feudalism the trial by private combat recognized as a legal mode of settling disputes. The trial came gradually to be hedged in by formalities, until it was only appealed to in cases of grave import. It is obvious that in many cases of personal encounter the disputants must be so unequally matched that they could not be pitted against each other with any chance of a fair result; the law therefore permitted the plaintiff, or the defendant in cases of accusation, to name a proxy or champion. Appeal to combat could be made in court-martial, that is to say, in cases coming under the jurisdiction of the court of chivalry or honor, in appeals of felony, and in certain cases upon issue joined in a writ of right. Ladies and minors, being disqualified by reason of their physical incapa-city, prosecuted their claims by a champion. The champion usually challenged his opponent by casting down his glove, which the latter

accepted by taking up. joined, and carried on to stopped by the judges. Ve for the victorious party. It = tom that our modern phras appeal to the God of battles. appears to be of Gothic o Norman introduced it is was practised as late as 10 year of Queen Elizabeth a trust fought by champions in Tothil ster, on a writ of right. The pressed in France by St. Lor remained unrepealed on the book to the time of George Il. wayman escaped from justice by appeal to wager of battle until recently in use on the cokings of England, a champion ously. The championship of l tary in the family of D male representative heir, as style of the middle ages, shown and and throwing down his to dispute the right of we throne. This portion of to occurred in 1821, at the corul. IV. William IV. and Victor.

CHAMPLAIN, a post village and towally at the N. extremity of Clinton co., N. Y.; pay of township in 1855, 6,197; of village, 1,573 It is situated on Chary river, which supplies in with water power, and is connected by the Northern railroad with Rouse's Point and Ogdensburg. It is comprised in Champlia collection district, and has some trade, which is carried on by the Chary river. The village contains several churches, an academy, a new paper office, and manufactories of iron so other articles.

CHAMPLAIN, a N. W. co. of Cannia L. on the left bank of the St. Lawrence, travered by the St. Maurice river, and including swall lakes; area 6,200 sq. m.; pop. in 1851-3, 13,896. In 1851-3 it produced 28,003 banks of wheat, 200,796 of oata, 19,632 of buckwhat, 11,319 tons of hay, 5,469 pounds of beauting 29,130 of wool, 166,900 of maple sugar, and 81,059 of butter. It contained 8 grist, 11 sw. and 4 fulling mills, 1 tannery, 1 foundary, 15 schools, and 8 churches.

CHAMPLAIN, Laxx, a picturesque short of water lying between New York and Vermest, and extending from Whitehall, in the former state, to St. John's in Canada. It is 126 m. long, and varies in breadth from 40 reds m. 15 m. Its greatest breadth unobstructed by islands is about 10 m., at a point near Burington, Vt. Its depth varies from 54 to 222 feet, and vessels of 80 or 100 tons navigate its whole extent. The principal islands are North Hero, 11 by 2 m., South Hero, 12 by 4 m., and La Motte, 6 by 2 m.; these 8, with several smaller ones and the peninsula of Alburg, all in the X. part, form the county of Grand Isle in Ver-

The largest rivers entering the lake are sisque, Onion or Winooski, Lamoille. lhazy, Saranac (the old Indian name ake itself), Au Sable, and the outlet of orge in the S. W. part. Its own outlet rel or Richelieu river, which empties St. Lawrence, and with the Chambly ords a passage for vessels of large size cean. On the S. it has boatable com-ion, by means of the Champlain canal, Hudson river. Navigation is usually y ice about the end of November, and arly in April. The waters abound ss, pickerel, salmon trout, and other of fish. This lake, filling a valley by high mountains, is celebrated for nificent scenery, embracing the Green as of Vermont on the E., and the ac mountains of New York on the veral pleasant villages and watering rith one or two important towns, are on its shores, which comprise the collistricts of Burlington and Champlain. regate tonnage enrolled and licensed in 357, was 10,55033; value of imports, 95; value of exports, \$2,965,582; numressels entered, 1,878; tons, 123,548; of vessels cleared, 1,758; tons, 117,836. Champlain was discovered in 1609 el Champlain, whose name it received. he scene of many important events in wars of the continent, and in the year secame of much importance in our war gland. At that time an invasion of the portion of New York was contemplaa force of from 10,000 to 15,000 troops ected in the vicinity of Montreal for pose. In such an expedition, the com-Lake Champlain became an object of oment, as it flanked the march of the army for more than 100 miles, thus great facilities for the transportation rcements, supplies, &c. The efforts of ions were therefore directed to the cres-The efforts of laval forces on the lake in the shortest time, and vessels were built and equipservice with magical rapidity. , the largest American vessel, was built nnes, and was launched on the 40th day first tree used in her frame was taken e forest. In Aug. 1814, the English bout 12,000 strong, commanded by rge Prevost, advanced in 4 divisions Plattsburg, then held by Brig. Gen. , with a force of only 1,500 men. Capt. ugh, who commanded the American ce on the lake, anchored in Plattsburg iept. 8, and awaited the appearance of ny's squadron, which came down the a Sir George Prevost's left flank. Plattsr is a deep indentation of the shore, into ie river Saranac empties, at the mouth n, and upon both its banks, stands the f Plattsburg, which at that time conbout 70 houses. Cumberland head is thernmost point of Plattsburg bay:

and about 1 of a league from it, in a S. W. direction, lies Orab island, small and low, and surrounded by an extensive shoal. Upon this island a battery of one gun was established. Capt. McDonough's vessels were anchored with springs on their cables in line parallel to the shore and in the following order: The Eagle, brig, of 20 guns (8 long 18s, 12 82-lb. carron-ades) and 150 men, Capt. Henley, was at the head of the line, and lay so near Cumberland head as to bring the enemy within carronade range should he attempt to enter the bay by doubling it; the Saratoga, ship, of 26 guns (8 long 24s, 6 42, and 12 32-lb. carronades) and 212 men, Capt. McDonough's vessel, was 2d; the Ticonderoga, schooner, of 17 guas (4 long 18s, 8 long 12s) and 110 men, Lieux.-commandant Stephen Cassin, was the 3d; and the Preble, a sloop or cutter, of 7 guns (long 9-prs.) and 80 men, Lieut.-commandant Budd, was the last vessel, lying so near the shoals off Orab island as to prevent the enemy from passing that end of the line. In addition to these 4 vessels, there were 6 gun-boats, mounting each a long 24-pr. and an 18-lb. Columbiad, and 4 of a smaller size, mounting each a long 24-pr. The complements of these gun-boats were about 85 men each. The total American force, therefore, was 14 vessels, mounting 86 guns, and carrying about 850 officers and men, including a small detackment of soldiers acting as marines. The gun-bosts were distributed inshore of the large vessels, and in such a man-ner as to sustain the line the most effect-ually. They were not anchored, but were kept in motion by sweeps during the whole engagement. In addition to the customary arrangement of springs upon the cables, a kedge was laid off upon each bow of the Saratoga, their hawsers being brought in upon the quarters, the bights hanging under water out of the reach of shot. In the selection of his anchorage, and in-all his arrangements for battle, Capt. McDon-ough evinced high professional ability, and to the precaution of laying out the kedges upon the quarters of his own ship, he owed the vic-tory which ensued. On the morning of Sept. 11, 1814, just after the sun had risen, the ap-proach of the British squadron was discovered by the guard-boats of the Americans, and preparations were made for action. Soon after 8 o'clock, the enemy having formed in line abreast, approached the American squadron in good order, the wind moderate and fair, the weather fine. The British squadron was commanded by Capt. Downie, an officer of distinction, and was composed as follows: The largest vessel, commanded by Capt. Downie in person, was the Confiance, a ship, of 87 guns, principally long 24s, with a complement of considerably more than 800 officers and men; the Linnet, brig, of 16 long 12s, with a crew of about 100 men; the Chubb, sloop, of 11 guns, 18-lb, carronades, and 1 long 6, and 40 men; the Finch, sloop, also of 11 guns, and 40 men; 12 gun-boats, 8 mounting 2, and the remainder 1 gun each; ment, the whole starboard battery of the barafrom his patron De Chastes, dec toga had become unavailable, the long guns having been disabled by shot, and the carronades dismounted. It therefore became necessary to wind the ship, in order to bring the larboard battery to bear. This was accomplished by means of the kedges which had been laid out, and the fresh broadside was brought to bear upon the Confiance with great effect. She attempted the same evolution, though unsuccessfully, and, about 21 hours after the engagement commenced, surrendered. The Saratoga's broadside was then sprung upon the Linnet, which struck a few minutes afterward. The Finch had previously been crippled, and drifted down upon Crab island, where, upon receiving a shot from the 1 gun battery, she surrendered; and the Chubb had earlier in the engagement struck to the Ticonderoga. The gun-boats struck soon after the Confiance, though they succeeded in escaping, none of our vessels being in a condition to pursue them. The American loss in killed and wounded was 111. That of the enemy was variously stated at from 173 to 204. The conduct of Capt. McDonough, his officers and men, washighly applauded; in fact, the calm and desperate bravery with which this action

de Monts. Letters patent to this inated him vice-admiral, and lie of his majesty in that part of called Norimbergue, with full peace and war, and to trade in p 40° to 46° N., to the exclusion sons, also to make grants of land Monts made a new engagement for another voyage. Leaving] they proceeded to the St. Lawren of founding a settlement on its Monts finding the climate too as ed the coast of Nova Scotia till tl island in the St. Croix river bet New Brunswick, but speedily quence of its want of water decided on Port Royal, E. side During the winter and succeed plain was occupied in exploring he did as far as Cape Cod, Ma returned to France. His 8d vo taken at the solicitation of De once more taken up the idea to on the St. Lawrence, near the Saguenay. He sailed in 1608, nied by Pont-Grave for the ne

France, but the plot was discovered and Quashed by the hanging of the ringleader. In 1609 the Hurons, Algonquins, and other Indian **Tribes**, took the war-path against the Iroquois. Champlain, considering the Iroquois dangerous the colony, joined the Hurons, and descended the Iroquois or Sorel river, until stopped by the falls of Chambly. Here he sent back his boat and crew, keeping only 2 men with himrelf. With these he accompanied the Hurons in their canoes to the lake, since called Lake Champlain. They had hoped to surprise the Iroquois, but the scouts of that tribe saw them on the lake, so they put ashore, intending to fight, on the next day. Champlain set his allies in order of battle. On the first charge of the Iroquois, 200 in number, he shot their 2 chiefs with his firelock. The enemy fled, and the Hurons returned to Quebec with 50 scalps. In September of the same year he returned to France, leaving the colony under the care of Pierre Chavin. Returning, he left Honfleur April 8, 1610, arrived at Tadousac on the 26th of the same month, landed there, and induced the Montagnez Indians of the place to lend him 60 braves, with whom he once more ascended the river to Lake Champlain to fight the Iroquois. Fortune failed to favor him in this expedition. His allies were defeated, and himself wounded by an arrow, which caused him to return to Quebec, and thence once more to France, where he found Henry IV. dead, and the fortunes of De Monts so broken that he was unable to continue the settlement of his new colony at Montreal. The queen regent, however, having appointed Charles of Bourbon nominal governor of New France, that prince nominated Champlain his lieutenantgovernor with extensive powers, which appointment was also continued under the prince of Condé and his relative Montmorency. Champlain returned to America in 1612, again engaged in war with the Iroquois, and extended his discoveries. About this time—but the dates are uncertain-he explored the Ottawa river, to a lake about 65 leagues from its mouth, being in hopes by that route to reach Hudson's bay, just discovered by the mariner whose name it bears, and with a vague idea of throwing some light on the northwest passage. In 1615 he invited some Jesuit missionaries to the colony. The same year he made an extensive exploration, ascending the Ottawa for some distance, then taking an easterly direction, partly overland, partly by canoe, till he arrived at the eastern shore of Lake Huron; embarked on the lake to a southern point; then going overland to the western extremity of Ontario, he explored that lake and the St. Lawrence as far as the entrance of Lake Champlain, where he made another campaign with the Hurons and wintered with them, returning to Quebec in the spring. Up to this time, Champlain had given more attention to exploring the country, and establishing relations with his neighbors, than to consolidating his power in the

colony. Once more, therefore, he went home, with the intention of importing additional colonists and of getting permission to fortify the settlement. He returned with his family, and the title of governor, in 1620; but it was not till 1624 that his patrons at home enabled him to commence defensive works. Meantime, in 1627, England had declared war against France. Captain Kirk, a Frenchman in the English service, came with an armament of 6 ships, and Quebec, which now contained about 200 souls, being unable to make resistance, capitulated. By the treaty of St. Germain, March 29, 1682, Canada was restored to France. Champlain, being reinstated as governor, strained every nerve to place his colony in a better position than before. Among the means on which he reckoned much was the Christianization of the Indians, especially of his friends the Hurons. His force of missionaries was increased to 15 clergy, with numerous lay brothers. A college was established at Quebec, in which the children of the savages were trained in habits of civilization and in the use of the French language. He did not live to see the result of his efforts, his death having taken place the same year. He was succeeded as governor by De Montagny. Champlain, apart from his merits as a discoverer, was a noteworthy man. His zeal for the propagation of Christianity was great. A saying of his is preserved—that the salvation of one soul is of more importance than the founding of a new empire. While in Canada he devoted him-self wholly to the duties of his position, and apparently with a single eye to benefit his patrons. Although traffic with the Indians was very lucrative, he never engaged in it. His views of justice were stern and upright, yet tempered with mercy. He has been accused of credulity in repeating the stories told him by the Indians, but these were omitted in revising his writings. The best edition of his works is

that published in 4to., 1640. CHAMPLAIN CANAL commences at Whitehall, at the S. extremity of Lake Champlain, and runs in a general S. course to the Hudson, which it joins at Fort Edward. Thence it extends along the W. side of the river, passes Saratoga, and joins the Erie canal at Water-vliet, opposite Troy. By this canal a water communication was opened between the Hudson and the St. Lawrence, through Lake Champlain. It was completed in 1822, and its total length, including about 17 m. of improved river navigation, is 64 m.

CHAMPMESLE, MARIE DESMARES DE, 8

French actress, born at Rouen in 1644, died at Auteuil, near Paris, in 1698. She was the grand-daughter of a president of the parliament of Normandy, but her father being disinherited, she selected the stage as a means of support, made her debut in her native city, and married an actor, Charles Chevillet, sieur de Champmeslé, who had also some talent. Both acquired such fame that they were invited to Paris, where they were successful, especially at the theatre of

the introduction and the plan of this intended work were read by him, in 1807, to the scademy of Grenoble, before he was 17 years old. A few months later he repaired to Paris, where he became acquainted with the most renowned orientalists of the time, Millin, Langlès, Sylvestre de Sacy, Chézy, and assiduously attended the lectures at the college of France and the royal school of oriental languages, giving special attention to the Coptic, through which he now hoped to decipher hieroglyphic inscriptions. He consequently prepared a Coptic grammar and dictionary, which he never ceased to revise and enlarge. After perfecting his knowledge of the Arabic, Persian, and Sanscrit, he began in 1808 to perceive a dim light through the arcana of hieroglyphic writing, and by a minute comparison between the Rosetta inscription and a demotic papyrus, he found out the 25 Egyptian letters as set down by Plutarch. To this mode of writing he took such a

and the alphabetic, which great work published in 1824. the government, under the ti système hiéroglyphique des an Champollion had, meanwhile, first volumes of his Panthéon. however, was not completed. 1826 he travelled in Italy, and French government a valual Egyptian antiquities, which ha Leghorn by the English consul, visited the museums of Turin. and Naples, which he thoro giving an account of his recoveries in several papers re-Italian academies, or address persons in France. The most re Première et seconde lettre au which he presented sev tions of his system. On found that an Egyptian . created at the Louvre by a buy. liking, and acquired such familiarity with it, as being appointed keeper, and. a to use it even for his private notes. In 1809 he professor of Egyptian arel was appointed professor of history in the faculty seum. He devoted his a. of Grenoble, and in 1814 appeared the 2 first duties, and so arranged the

is, where he found that he had been mber of the academy of inscriptions. itific society he communicated varif his explorations, and especially his les signes employés par les Egyptions rois systèmes graphiques à la notaincipales divisions du temps. his Grammaire Egyptienne, and his hiéroglyphique, while preparing s for the great descriptive work in ntended to give the results of his gypt, and which was to be a come of ancient Egyptian civilization. stus of this publication, issued tol of 1831, was the last paper of Chamhad a few months before been apfessor of Egyptian archeology in of France, and had opened his lecne was obliged to stop them, on act of apoplexy. He tried in vain to n; he was only able to give the ch to his Grammaire Egyptienne, nsidered his best title to the regard . All his manuscripts were pur-he French government, and pub-

1834 to 1848, under the supervirother.

)LLION FIGEAC, JEAN JACQUES, a 1800logist, born in 1778 at Figeac, has been affixed to his patronymic sh him from his younger brother, ted orientalist. He was at first the public library and professor rature at Grenoble. In 1828 he reiris, being appointed professor at the rtes, and keeper of the manuscripts (now imperial) library, which office until 1848. He is now (1858) libraimperial château of Fontainebleau. d many valuable manuscripts conthe history of France, most of them atronage of the government or the He has aided Silorical society. acy and Dacier in several importions, and superintended the unfinations of his brother, especially the Egyptienne, the Dictionnaire his-, and the Voyage en Egypte.

The doctrine of chances is a branch tics which calculates the degree of of a contingent event, or of the corresult. It is used in the discussion observations, especially in astrondesy; and also in the calculation of d insurance.

L in Gothic architecture, that porrch occupied by the clergy, and usud from the nave and aisles by screens ed stone or oak. The screen which e chancel from the nave was called en, because a rood or large crucifix placed on it, accompanied with 2 esenting St. John and the Virgin e chancel were situated the high alia, or seats for the officiating clergy, ina, in which the water used for

washing the hands of the celebrant was poured. It was usually surrounded with carved seats or stalls, which were occupied by the clergy not engaged in the services. These were also used when the office was sung in choir, a lecturn being placed in the centre of the chancel. The stalls were usually enriched with carvings, and had canopies of carved oak placed over them. The chancel in Gothic buildings occupies the same place with the apsis in the ancient basilicas, and was called so from the concells or rails which were used in the early churches to separate the clergy from the laity.

CHANCELLOR, a law officer known to the

polity of several countries. The derivation of the title is uncertain. It has been derived by Coke from the right of cancellation of patents and other royal grants, inherent in this officer, for misrepresentation of facts or on other grounds. But the word chancel would point to a more ancient derivation. The cancellarius of the Roman courts was simply a door-keeper, or usher, to keep back the people who pressed rudely forward to the cancelli, or railings. The doorkeeper afterward became chief scribe, an official which the Roman church borrowed from the Roman empire, and still retains in the bishop's chancellor. The function of the chancellor is thus described by Blackstone: "When the modern kingdoms of Europe were established upon the ruins of the empire, almost every state preserved its chancellor, with different jurisdictions and dignities, according to the different constitutions. But in all of them he seems to have had the supervision of all charters, letters, and such other public instruments of the crown as were authenticated in the most solemn manner, and therefore, when seals came into use he had always the custody of the king's great seal; so that the office of chancellor, or lord keeper, whose authority by the statute of Elizabeth is declared to be exactly the same, is with us created by the mere delivery of the king's great seal into his custody, whereby he becomes, without writ or patent, an officer of the greatest weight and power of any now subsisting in the kingdom, and superior in point of precedency to every temporal lord. He is a precedency to every temporal lord. He is a privy councillor by his office, and prolocutor of the house of lords by prescription. To him belongs the appointment of all justices of the peace throughout the kingdom. Being former-ly an ecclesiastic, for none else were then capable of an office so conversant in writing, and presiding over the king's chapel, he became keeper of the king's conscience, visitor in right of the king of all royal hospitals and colleges, and patron of all the king's livings under the value of 20 marks (or £20) per annum. He is the general guardian of all infants, idiots, and lunatics, and has the general superintendence of all charitable uses in the kingdom, and all this over and above the vast and extensive jurisdiction which he exercises in his judicial capacity in the court of chancery." The chancellor of England is a member of the cabinet, and

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office; but the increase of government responsibilities has compelled the separation of the duties. In the present generation the office has been in the hands of Mr. Canning, Sir Robert Peel, Lord Althorpe, Mr. Disraeli, Mr. Francis Baring, Mr. Gladstone, Sir Charles Wood, and in 1858 again of Mr. Disraeli.—The CHAN-CELLOR OF OXFORD OF CAMBRIDGE is the chief officer of those collegiate bodies. He is elected and his office is honorary, the duties being discharged by the vice-chancellor.—The CHAN-CELLOR OF A BISHOP sits in the consistorial court, and is theoretically the bishop's assessor and legal adviser.—In continental Europe there are various political as well as ecclesiastical officials styled chancellors. The chancellor of France was one of the highest officials of the old monarchy. The office was closely analogous to that of England. The chancellor was president of the great council and of the parliaments, drew up ordinances and letters patent, and held the royal seals. It is connected with the illustrious names of Duprat, De l'Hôpital, Birague, Maupeou, Malesherbes, and other dis-tinguished jurists. Louis XV. held the seals himself for a time, and in 1757, the censorship

he decided in favor of the eq putting his decision merel trary discretion, which he ci rogative. The jurisdiction court of chancery took its 1 of ecclesiastical chancellors utes of mortmain, that is prohibiting the grant of houses. Instead of a grant of to the parties thus disabled tice was introduced of makin son who was under no disabi of religious corporations of chancery it was held that the in conscience, and could be for the purpose of getting class of cases that John Wali Richard II., adopted the se ever since been the process suit in equity. To understan innovation, it is necessary to all writs for the commencem different courts, though is the chancellor, which was co issued, but to the courts who

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therw ise as a relief from restraints upon the lienation of property which had long existed. the reign of Henry IV. and V., the commons attempted unsuccessfully to suppress the writ of subporna, the object of which was to chancery; and in the reign of Edward IV. it become the regular practice of the court to The statute of uses, 27 Henry VIII., by which were executed, that is to say, transferred into possession, seemed likely to oust the chancellor of his new jurisdiction, as the courts of common law thereupon took cognizance of a as being the real ownership of land; but by - narrow construction of the law, by which only one use was recognized by courts of law, the court of chancery was enabled to regain its **Power.** Thus a conveyance to A, for the use of B, in trust for C, was held by common law courts to be a use executed in B, and the trust as a nullity; but in chancery it was held that the 2d was as binding as the 1st, and thus, ander the name of trusts, the same class of cases still remained exclusively of equity cognizance. The court having thus acquired the Light of calling parties before it by process of Topogna, its jurisdiction was extended to a steat variety of other cases, some of which were cognizable by common law courts; but e remark of Blackstone that this was done Pon false and fictitious suggestions, and that risdiction was obtained of matters that be-nged wholly to the common law courts, savors ther of old prejudice than of his usual candor, d is certainly not tenable. Another theory respect to the peculiar nature of proceedings chancery is that relief was sought thereby from the rigid rules of the common law. This would seem to be sustained by the case of Class of cases of which chancery took cogni-Nance was that of forfeitures and penalties. At common law, the penalty of a bond was deemed the debt upon non-performance of the condition, and judgment was recovered accordingly; but in chancery the amount really due was considered to be the debt, and on tender thereof with costs of suit at any time before judgment a stay of proceedings was granted. So as to mortgage: at common law the land was forfeited upon non-payment of the bond when due; but in chancery relief was given upon subsequent payment or tender of the real debt. The same doctrine was extended to pledges, and to other personal contracts subject to a penalty or involving a forfeiture. In these cases, it is true that the over-strict rule at common law was the occasion of resorting to chancery for relief, but it is also true that the difference between the courts was not in the construction of what was right in itself, but in the refusal of the common law courts to give a relief according to the right, which they could have done as well as a court of chancery, and which afterward they were compelled to do in respect

to bonds and mortgages, by statute; as for instance, a judgment upon a bond, although nominally for the penalty, could be enforced only for the amount really due; and so mortgaged lands could not be retained after tender of the real debt, and this led to the process of filing a in chancery in order to acquire the absolute title. In general, however, it is true that all courts, chancery included, must give the same effect to positive laws, and must be subject to the same rules of interpretation. There are many cases of extreme hardship, but if the law is settled there can be no relief in equity inconsistent with the law; and so in construing agreements and conveyances, courts of law and equity are equally bound to get at the true meaning, and to give to them the same legal effect. The narrowmindedness of judges has indeed made a difference in some cases where there ought to have been none; as when there has been fraud or mistake, which in chancery would be held sufficient to avoid a written instrument or to warrant a modification, in the common law courts it was absurdly held that evidence of such fraud or mistake was inadmissible when the execution of the instrument was once proved. Thus in an action upon a bond, no matter what imposition had been practised, if the signature of the party was proved, the plaintiff must have judgment. So a policy of insurance or other written instrument could not in a trial at law be varied in its effect by the clearest proof of a mistake, but it must first be reformed in a court of equity. Exceptional cases like these have given to the English system, both of common law and equity, an anomalous character, and fully justify the remark of Blackstone that Grotius or Pufendorf, or any other of the great masters of jurisprudence, would have been as little able to discover by their own light the system of a court of equity in England as the system of a court of law. There was a large class of cases to which a jury trial was not adapted, as complicated accounts or multifarious interests in the subject of the suit; yet the former could have been disposed of by references, as has been the practice in the United States, and the other class could have been entertained without difficulty by a modification of the forms of pleading and the framing of issues, as has recently been provided for both in England and America by statute. Upon the whole, there is nothing in the nature of equity as distinguished from common law that would have made it necessary to have a distinct tribunal for its administration, so far as respects the principles involved, if the common law courts had exercised a proper degree of liberality in the discharge of their functions. Writers upon equity usually, however, insist upon 3 distinguishing features of the equity system: 1, the mode of proof, the parties themselves being made witnesses, or at least the plaintiff having the option to compel a discovery by defendant under oath; 2, mode of trial, which formerly was by taking depositions

an early period derived much assistance from the civil law, the most perfect code of law and equity which has ever been compiled, and in doing so did not infringe upon the common law, for that too received large contributions from the same source. The treatise of Bracton, written in the reign of Henry III., a very learned work and of great authority, was very largely made up from the digest of Justinian, and eminent judges have since that time been in the habit of referring to the same source in the settling of new or doubtful questions, and sup-plying deficiencies of the English law. The great distinction between the common law of England, and that of other countries derived from the civil law, is mainly that in the former equitable relief was excluded, so that another and distinct judicial department became necessary for the administration of equity merely. The prejudice of English lawyers against ecclesiastics, growing out of the introduction of the canon law by the latter, and their attempts to acquire jurisdiction over a large class of cases that did not properly appertain to the ecclesiastical courts, extended also without just

cause to the administration of equity according

to the civil law and they uniformly me

court thereon. Summary on ized in a variety of cases. Th ized in a variety of cases. ceptions was dispensed with in and the court itself was re upon objections to forms of pl referring them to a master. another act was passed, by offices were abolished; chamb for the vice-chancellors, who attend to many of the dut charged by masters. There sion for the reference of qu ancers, accountants, and other sons. Lord St. Leonards prope urged the adoption of anoth cases might be sent by the vi courts of law for their opinion responding power should be law to get opinions of court object was to cut off all embar out of the question of jurisdic a final decision in the case court without having to co

of the court be adopted in any July, 1850, an act was passed

to agree on cases, and to take

CHANDAH CHANDLEK 703

ed the combination of equity powers with the common law administration in the same court. They say that the consolidation of the elements of a complete remedy in the same court is obviously desirable, not to say im-peratively necessary to the establishment of a consistent and rational system of jurisprudence. The legislation of parliament has, as yet, come far short of this recommendation, but in the acts of 1852 and 1854 great changes have been made in the forms of proceedings in the courts of common law, and some equitable powers have been given to the law courts. In the United States, the federal courts, established in 1789, have administered equity as well as law, without having separate organizations for that purpose. In the state of New York, by the constitution of 1846, the same system has been adopted, and has been carried out by the code of practice with great practical efficiency.

CHANDAH, or CHANDA, a town of Hindostan, capital of a province of the same name, in the territory of Nagpore, distant from the city of Nagpore 85 m., and 430 m. E. from Bombay; lat. 19° 57' N., long. 79° 23' E. The town is of considerable extent, surrounded by walls large enough for the heaviest guns. It conlarge enough for the heaviest guns. tains a number of straggling houses, plantations, and a citadel, covering altogether a space British, May 20, 1818. It was taken by the

CHANDELEUR ISLANDS lie E. of Chandelenr bay, on the S. E. coast of Louisiana. On the N. or smaller island is a fixed light 55

feet high.

CHANDERNAGORE, a French settlement in Bengal, on the Hoogly, lat. 22° 51′ 26″ N., long. 88° 9′ 15″ E., 17 m. N. of Calcutta. Pop. **81.2**35, viz: 30,581 Hindoos, 438 of mixed races, and 216 whites. The town presents a dilapidated appearance. Clive and Watson captured the town from the French in 1757, and dismantled the fortifications; but it was restored to the French by treaty in 1763. It was again occupied by the British on the breaking out of the republican war, and again restored to the French at the general peace in 1815. Some cotton is manufactured in the town, and the chief article of export is opium. The annual revenue of the town and territory is not much above \$30,000.

CHANDLER, ABIEL, a merchant of Boston, born in Concord, N. H., in 1778, died at Walpole, N. H., March 22, 1851, graduated at Harvard college in 1806. He died a wid-ower, without children, and devised \$50,000 to Dartmouth college. He also bequeathed \$1,600 for the establishment of a scientific agricultural school, and the remainder of his estate to the asylum for the insane in New Hamp-

shire.

CHANDLER, RICHARD, an English traveller, born at Elson, in Hampshire, in 1738, died in Feb. 1810. He was educated at Winchester, and at Queen's college, Oxford. An early pub-lication of fragments from minor Greek poets made him known as a man of literary taste.

and his publication of Marmora Ozoniensia, the Arundelian marbles, with an accurate transcript of the original, and a good Latin translation, established his reputation as a scholar and an antiquary. In 1763, Chandler was sent with Revett the architect, and Pars the painter, to explore the antiquities of Ionia and Greece. After their return, they published as the result of their labors, in 1769, two magnificent folios of "Ionian Antiquities." Chandler published other works on the same subject. His posthumous life of Bishop Wayneflete, lord high chancellor to Henry VI., was published in 1811. He also undertook to refute the proposition of Bryant, that the Trojan war was a fiction, and that no such city as Troy ever existed. He vindicated the veracity of Homer, and especially the truth of his local descriptions.

CHANDLER, SAMUEL, a learned dissenting English minister, born in 1698, at Hungerford, Berkshire, died May 8, 1766. In an academy at Gloucester, he contracted a friendship with the famous Bishop Butler, and with Archbishop Secker, which continued to the end of their lives. Mr. Chandler, as Presbyterian preacher at Peckham, soon distinguished himself, but unfortunately lost the fortune of his wife in the South sea speculation. He was then a bookseller for some years, without relinquishing his pastoral duties. He also lectured, alternately with Dr. Lardner, at the Old Jewry, where, at last, he was chosen pastor, and where he labored for 40 years. Four volumes of his sermons werepublished, in accordance with his last desire, by Dr. Amory, in 1768, which were followed in 1777 by a volume of his notes and commentaries on the epistles of St. Paul.

CHANDLER, THOMAS BRADBURY, D.D., an Episcopal clergyman, born at Woodstock, Conn., April 26, 1726, died in 1790. He graduated at Yale college in 1745, in 1747 was appointed catechist and lay reader in St. John's church, Elizabethtown, N. J., and in 1751 went to England for the purpose of receiving episcopal ordination. Upon his return he was made rector of St. John's church, and in 1766 received the degree of D.D. from the university of Oxford. In the political discussions which immediately preceded the war of the revolution, he deemed it to be his duty to sustain the pretensions of the crown; but the current of popular feeling soon set so strongly in the opposite direction that his situation became unpleasant, and even dangerous. Accordingly, in 1775, he went to England, where he was received with every manifestation of the most respectful regard by many of the most eminent personages in the kingdom. On the conclusion of peace in 1783, his congregation earnestly requested him to return and resume his position as their rector. He returned to Elizabethtown in 1785, but in exceedingly ill health. The vestry did not think proper, however, to appoint another rector, and in compliance with their request he consented to retain the station during his life. During the 10 years which he passed in England the government alwide, and many of them are well paved. The troops, known as the army of ! houses are usually two stories high, and shops 000 strong. With these forces to control at the same time are numerous and well furnished. There are two famous temples, now in a dilapidated conmovements of the Parisian mo dition, which are reputed to have attained the tious aspirations of the preside good old age of 1,200 years. The town is a ed in accomplishing the former fold mission, especially on Jan. 1849, when his vigorous meas busy, animated place, and is the centre of the silk manufacture of the province. It has extensive suburbs, containing large tile and sugar attempt at insurrection; but manufactories, while from an eminence near the evincing the same boldness and city as many as 80 populous agricultural villages dealings with Louis Napoleon. may be seen scattered over a plain 30 m. long nier was openly giving the ase that he was ready to protect t by about 20 m. broad. The port of the city, Amoy, is about 36 m. distant. One of the most illegal measures, the president remarkable objects to be seen at Chang-choogaged in carrying out his coup garnier found himself unexpect Dec. 2, after which he was banisl foo is a bridge across the river. It is built upon 25 piles of stone, about 20 feet high and 30 feet apart. Large beams are laid from pile to pile;

are covered with earth, and then paved with enormous blocks of granite, some of which are 45 feet long and 21 feet broad. This singular structure is about 9 feet wide. Half its length on both sides is occupied with shops, CHANGARNIER, NICOLAS ANNE THEODULE, a French general, born April 26, 1793, at Autun.

CHANGEUX, PIERRE JAC these again are crossed by smaller ones, which savant, born at Orleans, Jan. 26 1800. His speculations attr tion of D'Alembert, Condorcet, a large space in the French Er given to an analysis of his most entitled Traité des extrêmes. He

He has since resided chiefly in

for his improvement of the be

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expensive appendage to the crown. In the 6 months ending June 30, 1858, the imports from

England amounted to £234,764.

CHANNING, EDWARD TYRREL, an American scholar, born at Newport, R. I., Dec. 12, 1790, died at Cambridge, Feb. 8, 1856. He entered Harvard college in 1804, but was not graduated in course, as he was involved in the famous rebellion of 1807, in his junior year, on account of which a large number of the most prominent members of the two older classes were obliged to leave college; but received his degree a few years afterward. He studied law with his elder brother, Francis Dana Channing, in Boston, and was admitted the bar. He gave his attention, however, and his affections, chiefly to literature, and carried forward a careful and critical study of the Greek and Roman classics, with that of the **Sreat** writers of England. America had not then a literature; but the young men who were his contemporaries and friends have done much toward creating one. The "North American Review," the earliest permanent periodical in America, had its origin in a club of young men, who, in the winter of 1814-'15, projected a bi-monthly magazine. Mr. Willard Phillips, afterward author of the celebrated works on the law of insurance and of patents, was to be its editor. The committee on politics was composed of George Cabot, James Lloyd, John Lowell, Josiah Quincy, and others. The chief managers were to be President Kirkland, Jared Sparks, George Ticknor, Mr. Channing, Richard H. Dana, and John Gallison. At this time, Mr. William Tudor, author of the "Life of James Otis," returned from Europe with a matured plan for a quarterly review; and as the field was not large enough for two such works, the plan of the magazine was merged in that of Mr. Tudor, and the first number of the "North American Review" was issued in May, 1815, as a bi-monthly, the quarterly publication not being adopted until the commencement of the 8th volume. Mr. Tudor edited it for 2 years, and in 1817 it passed under the control of a club composed of the gentlemen named above, and a few others. Mr. Sparks was chief editor for one year, when the duty was undertaken by Mr. Channing, aided by his cousin, Richard H. Dana. Both gentlemen were then under the age of 30. Beside the Boston club, valuable aid was furnished to the "Review" by William C. Bryant, Gulian C. Verplanck, and James Kent, all of them then but little known to the public. In Oct. 1819, Mr. Channing was succeeded in the editorship of the "Review" by Mr. Edward Everett, having been appointed Boylston professor of rhetoric and oratory in Harvard university. This post he held for 32 years, resigning it in 1851. During all this time, the department of rhetoric and oratory, including the charge of all the English compositions of the students, and carrying great influence over their reading and taste, was filled by him with more than satisfaction to the publie of reading and thinking men. His labors

were esteemed invaluable, and expressions of gratitude, both public and private, were his constant reward. He established and maintained for the college a high reputation for purity and elegance of style in composition and elocution, and gave direction to the reading of an entire generation of leading men in all departments of intellectual labor. He received the degree of doctor of laws from his university in 1851. Mr. Channing was a constant contributor to the "North American Review," almost to the time of his death. Among these contributions, the following may be noticed as the best specimens of his style of thought and composition: "Lalla Rookh," 1817; "Rob Roy," 1818; "Charles Brockden Brown," 1819; "Southey's Cowper," 1837; "Pryor's Goldsmith," 1837; "Sir Richard Steele," 1838; and "Chesterfield," 1840. In 1856 a volume of his lectures to the senior class at Cambridge was published, being 20 in number, with a memoir by R. H. Dana, jr., of Boston. The topics of the lectures are selected with judgment and taste, and treated with good sense and good feeling, and the style may be pronounced faultless. He contributed the life of his maternal grandfather, William Ellery, to Mr. Sparks's series of American biography. He was highly esteemed for the charm of his conversation, which was choice and pure in style, with an occasional use of a restrained but effective humor. He was a man of pure and just character, thoughtful and scholarly habits, with few and warm friendships; tolerant and liberal views of his fellow beings; a Unitarian of the old school in his theology, and a philanthropic conservative in his politics.

CHANNING, WALTER, M.D., an American physician, brother of the preceding, born at Newport, R. I., April 15, 1786. He entered Harvard college in 1804, but leaving in his junior year on account of the great rebellion of 1807, his degree was conferred upon him afterward out of course. He studied medicine much longer than the usual term, first under Dr. James Jackson in Boston, then under Prof. Barton in Philadelphia. He received the degree of M.D. from the university of Pennsylvania, afterward studied at the university of Edinburgh, and at Guy's and St. Thomas's hospitals in London, and began the practice of medicine in Boston in 1812. The same year he was appointed lecturer, and in 1815 professor, of obstetrics and medical jurisprudence in Harvard university, which office he filled until his resignation in 1854. In 1821, the Massachusetts general hospital was opened in Boston, and his teacher, Dr. James Jackson, was appointed its physician, who named Dr. Channing as his assistant. He labored in the hospital for a term of nearly 20 years, and saw it rise from one patient on Sept. 8, 1821, and 2 on the 20th of that month, to be one of the largest institutions on the continent. Dr. Channing has been a frequent contributor to medical and literary periodicals, beside publishing a volume of

his elders; and he always regarded the tone of ures was furnished by recit The interest which l his character as due more to silent thought than plays. alent social agitations appears of the oration, the "Present delivered at the graduation of any companionship. His mind was early occupied by religious and poetic conceptions, by contemplations of power and chivalrous honor, and he sometimes startled his associates by the ing selected the proving college:
11 years after leaving college:
12 as Richmond, Va. ing selected the profession of vehemence with which he would repress any vate family at Richmond, Va. was passed in agreeable social study, chiefly of political and injustice that was attempted. Washington Allston was one of his playmates, and mentions as an instance of the rare uniformity of his moral dignity that even among boys he was jects. He read numerous wor speculation, seeking the princ that perfect society which was always looked up to with respect. The lessons of his mother had developed his religious senof pursuit by the best minds i sibility, and the doctrinal conversations then in vogue had turned his attention to theology, land, France, and Germany. when at the age of 12 he was sent to New ed severely from his anxious London, Conn., to prepare for college under his uncle, the Rev. Henry Channing. His father soon speculative doctrines, and in to Newport to continue his st afterward died, and to the impression of the used to alternate between the r the sea-shore, on which he funeral and the influence of a revival which then swept over New England, with which his that he had passed his l uncle as a moderate Calvinist sympathized, he In 1801 he removed to attributed the commencement of his decidedly ed regent in the university. religious life. A competency was not left to how earnestly at this his large family, and thus the necessity of inboth to theological ILIOR SI dependent energy was added to the elements

pline, equally admir.

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ived from Dr. Hopkins. His preaching attracted attention for its fervor and ty, and both the Brattle street and Fedet societies in Boston sought to obtain Diffident both of his their pastor. and abilities, he chose to settle over the society in Federal street, and was or-June 1, 1808. His congregation inwith his own reputation for eloquence votion, till in 1809 the old church was lown to give place to one larger. his mother and sisters to transfer their his parsonage, but by degrees he found alt to relax the intensity of his thought the buoyancy and joyfulness of the so-Taciturn, or gravely conversing on of highest interest, his solemnity seemed inappropriate to festive scenes, and phypression added to his distaste for them. ole spiritual energy became concen-n his labors as pastor, in sermons so exthat he was nearly prostrated at their attending prayer-meetings and Sunday and in unweariedly ministering to the By the custom of exd mourning. g with other clergymen, too, he became known throughout New England, and said of him and his friend, the younger nster, that they had introduced a new When the disagreement in between the liberal and the conservaongregationalists, after slumbering for ne, burst forth into the flame of the Unicontroversy, Dr. Channing was the acdged head of the liberal party, and was to take an active though uncongenial its defence. Irreconcilably opposed to vinistic scheme and the doctrine of the he was even more at variance with the anism of Priestley and Belsham; and ng a middle ground in theology, he was led in his enthusiasm for moral and proideas, and in his high estimate of the apacities of man. He blended in his views which have generally been deemordant, and without checking himself by a difficulties, he threw over his complex y the charms of imagination and sentiand linked it with schemes of moral ial reform. During the period of most nt debate his pure and glowing charon the constant admiration of his op-In 1814 he married, and soon after d some acquaintance with the master f Germany through the refined thought 3. de Staël. From Kant's doctrine of son he derived deeper reverence for the l powers of man; by Schelling's intimaf the Divine Life everywhere manihe was made more devoutly conscious universal agency of God; and he was ly delighted with the heroic stoicism of and his assertion of the grandeur of the will. But for his greatest pleasure and cipline he was now indebted to Wordswhom he esteemed next to Shakespeare,

and whose "Excursion" came to him like a revelation. With Wordsworth's mingled piety and heroism, humanity and earnest aspiration, with his all-vivifying imagination, recognizing greatness under lowliest disguises, and spreading sweet sanctions around every charity of social life, and with his longings to see reverence, loyalty, courtesy, and contentment established on the earth, he most closely sympathized. From this time he began to engage more actively in political and philanthropic movements. Outraged by the issue of the French revolution and the stern sway of Napoleon, he delivered, June 15, 1814, a discourse on the overthrow of the emperor and the "goodness of God in deliv-ering the Christian world from military despot-ism." He early gave his sympathy and support to Noah Worcester, the father of the peace movement in this country, and in 1816 preached a discourse on war before the convention of the Congregational ministers of Massachusetts, which was printed and widely circulated, and prepared the way for the formation of peace societies in several of the states. The cause of temperance, of reform in penitentiary discipline and punish-ments, of missions, and of Bible distribution, all received his encouragement. His church was always thronged when he preached, and by various public discourses, among which were sermons occasioned by political crises, his Baltimore sermon on the Unitarian controversy, delivered in 1819, and his Dudleian lecture on the "Evidences of Christianity," delivered at Cambridge in 1821, his celebrity was extended throughout the country. In 1822 he made a European tour, saw Wordsworth and Coleridge in England, the latter of whom wrote of him: "He has the love of wisdom and the wisdom of love," and visited France, Switzerland, and Italy. On his return he resumed his pastoral labors with more than his former energy, till in 1824 he received as colleague the Rev. Exra Stiles Gannett; and from this time his efforts were more in the general field of literature and reform. His remarks on the character and writings of Milton, his two articles on the life and character of Bonsparts, and an article on Fénélon, published in the "Christian Examiner" between 1826 and 1829, attained a very wide celebrity, and brought him into correspondence with several of the most eminent literary persons in England and America. His writings are most characteristic and effective when treating questions of Christian philanthropy and social reform. In behalf of peace, temperance, educa-tion, and freedom, he repeatedly came before the public, and he examined with sympathizing respect and anxious scrutiny every movement which promised more happy social relations. Without accepting absolutely the doctrine of non-resistance, he remonstrated against war, reviewing its crimes and miseries, in 1885, when there was danger of a rupture with France, and in 1839, when there was a prospect of conflict with Great Britain. The wide scope which he gave to education is seen in some of the most



ms personal character are needed to adequately estimate him. In unvarying moral dignity, and in the wide scope and constant glow of his moral feelings, he has perhaps never been surpassed. His words as well as his opinions were usually chosen from among those which express the sunny, hopeful, and possible view of things, and so predominate in his style that it is transparent with moral beauty. He should be judged as he is remembered, not merely as a thinker, but as a preacher and a Christian. He was buried at Mount Auburn, where a monument, designed by his friend Washington Allston, was dedicated to his memory.—The most complete edition of his works was published in Boston, in 1848, in 6 vols. 12mo. In England appeared in 1849 a selection of his works by Mountford, under the title, "Beauties of Channing." Many of his essays have been translated into German at various times, and a more complete selection of his works was translated by Sydow and Schulze, and appeared in Berlin, 1850-'51. His biographer was his nephew, the Rev. William Henry Channing, whose work was published in 1848, simultaneously in Boston and London, under the title of "Memoirs of William Ellery Channing, with Extrasta from his Correct

eign Literature;" "Memoirs Ellery Channing," 8 vols. (Bost and Writings of James H. P "Memoirs of Margaret Fulles 1852), in connection with R. W F. Clarke; sermons, reviews, He is at present pastor of the H (Unitarian), Liverpool, Eng., the pastoral care of the Rev. J Mr. Channing has labored m forms, and his views of the ch spring from central principles of in the Christian faith. He b licity of sympathy to the br church, and he advocates his much zeal and eloquence. discourses are often extempor livered in a style highly impa aginative. The vision of a man fraternized form of human soci of Jesus Christ on earth create and inspiration of the gospel man, fills his horizon, and es Mr. Channing, during a com his career, has been an corn CHANTAL CHAOS 709

tions that the Christians assembled at break of day to chant their hymns. The chant grow with the progress of Christianity. Pope Sylvester, in 839, founded a school for its culture; and St. Ambrose, bishop of Milan from 874 to 397, arranged from the old Greek music a new description of chant, the Ambrosian, which remained in use until superseded by the chant arranged by Pope Gregory, 590 to 604, hence called the Gregorian or Roman chant, and which, somewhat modified, is in use at the Present day. Chants are, properly, of 3 kinds: the monody, sung by 1 voice; the antiphony, alternately by 2; and the choral, by all voices.

elternately by 2; and the choral, by all voices. CHANIAL, JEANNE FRANÇOISE FREMIOT DE, saint of the Roman Catholic church, born at Dijon in 1572, died at Moulins in 1641. Her husband was killed while hunting, and although she was only 28 years of age, she took a vow never to marry again. From this time her sole occu-Pation and recreation was the education of her children and the care of the sick and the poor. She became acquainted with St. Francis de Sales in 1604, and from that time placed herself entirely under his direction. He communicated to her his project for the establishment of the order of the Visitation, and she so far entered into his views that in the year 1610 she laid the first foundation of that order at Annecy. She established her children in life, and then devoted the remainder of her days to the order. At the time of her death she had founded 37 houses of the Visitation. In the year 1700 they numbered 150, and about 6,600 members. Her beatification took place in 1751. She was can-onized by Clement XII. in 1767. Her life and Her life and letters were published in Paris, 1779.

OHANTIBUN, or CHAN-TI-BUN, an inland town of Siam, capital of a province of the same name, situated on a river at the foot of a chain of mountains, 18 m. E. from the gulf of Siam, in lat. 12°45′ N. and long. 102°18′ E. It produces pepper, rice, gamboge, cardamoms, rosewood, dye-woods, ivory, and benzoin. Foreign commerce being prohibited, the entire produce of the country is removed annually to Bangkok, 150 m. S. E. Near the town are mines of precious stones. Pop. estimated at 30,000, a large

proportion of whom are Chinese.

CHANTILLY, a charming locality in the vicinity of Paris, department of Oise, pop. 2,454, famed for its laces, porcelain and other manufactures, and annual horse races. Its historical celebrity is due to the castle which since 1632 has been the seat of the Condé family. It was given to them by Louis XIV., having previously belonged to the Montmorency family, and was bequeathed to the duke of Aumale in 1830. The great Condé gave in this castle splendid entertainments to the king, the poets, and the eminent persons of France. That given to the king in 1671 was rendered remarkable by the suicide of Vatel, the head steward, who ran himself through with a sword, because the fish did not arrive in time for dinner. The grand château was destroyed by the mob at the first revolution;

there now remain only the "petit château," the "château d'Enghien," and superb stables, capable of lodging 240 horses, but untenanted. In the parish church of Chantilly, the remains of Coligni were interred after the massacre of St. Bartholomew's, after his head had been cut off and sent to Catharine de' Medici. An interesting description of the beautiful forest, and the various attractions of Chantilly, occurs in Lord Mahon's "Life of Condé." The pictures of Condé's battles were in the petit château down to 1852, but have since been removed to Twickenham.

CHANTREY, SIR FRANCIS, an English sculptor, born in Derbyshire, April 7, 1782, died Nov. 25, 1841. Showing a taste for sculpture, he was placed with a carver in Sheffield; but finding his genius adapted to a higher walk in art, he began to model in clay, and established himself successively in Dublin, Edinburgh, and London. He made the latter place his home, and by the assistance of Nollekens and his own talents soon acquired considerable reputation. He was elected a royal academician in 1818, and in 1837 was knighted. As a maker of busts and a monumental sculptor, Chantrey held a respectable position. He executed an immense number of works, among the best of which are his bronze statues of William Pitt, Canning, and Bishop Heber, and the bust of Walter Scott. His statue in marble of Washington is in the state house at Boston. He amassed consideraable property, the greater part of which he directed to be invested for the encouragement of art.

CHANTRY, an ecclesiastical endowment to provide for the celebration of masses for the prosperity of the living or repose of the dead. Previous to the reformation, chantries were very numerous, almost every family of importance having founded one or more. Wealthy founders would endow a church or monastery, in which religious services should be celebrated continually. For less wealthy founders, an altar in the church of the locality was made to suffice. Sometimes small chapels, called chantry chapels, were appended to the main edifice. The residences of priests engaged in the services were known as chantry houses, chantries, or colleges. Chantries were dissolved in England by King Edward VI., and all endowments for the purpose confiscated to the king.

CHAOS (Gr. χaos , from $\chi a\omega$, to be open or void), in classical mythology, either the empty and infinite space which existed before all things, or the *mélange* of all the elements, the confused mass out of which the ordered creation was formed. By the poets it was personified, and made the most ancient of the gods, the father of Erebus and Night. The principle of the fecundity of chaos assumed several modifications in the Greek systems of philosophy. Something similar to the Greek conception of chaos is found in the Phænician, Chaldean, and Indian cosmogonies; and Ovid's description of the genesis of the universe out of chaos has so many features in common with the Mossie

the use of the term has been extended so as technically to include all religious edifices not of the established faith. Thus in continental Europe Anglican places of worship are chapels, while in England Roman Catholic and dissenting places of worship are styled chapels. There are also in the established church itself in England chapels of ease to parish churches, built for the accommodation of worshippers in populous or extensive parishes. In Roman Catholic churches portions of the main building are often set aside and dedicated to particular

are often set aside and dedicated to particular saints. These are called chapels, in which a service is performed in honor of the saint.

CHAPEL HILL, a post village of Orange co.,

N. C. It occupies a healthy and agreeable site on the New Hope river, an affluent of the Cape

on the New Hope river, an affluent of the Cape Fear, and is the seat of the university of North Carolina, a flourishing institution founded in 1789. See North Carolina, University of. CHAPELAIN, Jean, one of the carliest members of the French academy, born in Paris Dec. 4, 1595, died Feb. 22, 1674. Having gained a high literary reputation, more by ingratiating himself with Richelieu and other influential persons than by his intrinsic merits, he

1851. He was a prominent m missionary, Bible, and tempera He was the first recording sec American board of commissions missions, and held that office for

American board of commissions missions, and held that office for CHAPIN, EDWIN HIEBELL, I rican clergyman, born in Union ington co., N. Y., Dec. 29, 181 his formal education in a semin ton, Vt. He commenced preschul 1837, and was first settled of Unitarians and Univerval. Thence he removed to the law in 1840; then to Boston in 1848; ton to New York in 1848, to take 4th Universalist church in that he still remains pastor. He received D.D. in 1856, from Harvard unithad previously conferred degree of A.M. Dr. C connected with the Universalist far out in the universalist sympathies far out.

degree of A.M. Dr. C connected with the Univerbut his sympathies far ouboundaries of a sect. His r originally affected powerfully published writings, as well the Universalist faith; and are r a voice of remarkable richness and volume.

nen are so liberally endowed with the capav for vigorous and connected extempore ad-

It is his custom, however, to produce one builty written discourse every week, which is when from manuscript, and, in the morning ervice of his church, to preach with very little erbal preparation. The church over which Chapin presides is situated in Broadway, ud the morning and particularly the evening prvices are so numerously attended, that it is zently difficult for a stranger to find a seat. congregation comprises many of the young active men of New York, and persons of the st conflicting theological opinions. In addito the labors demanded by so large a parish, . Uhapin finds time for a great deal of service speaker before lyceums and literary associawhile as a temperance advocate, and a latform orator in behalf of public movements a which moral interests are prominent, he exers a continually increasing influence. His ch before the peace convention at Frankrt-on-the-Main, in 1850, is perhaps the most elebrated of all his successes in popular oratory. r. Chapin's published works consist of several olumes of sermons and religious lectures, and a w occasional discourses. One of those volumes, 'The Crown of Thorns," has obtained a very ride circulation, and its devout and cheerful

it has made it welcome beyond the circle of mose who are in sympathy with the anthor's heological creed.

OHAPIN, STEPHEN, D.D., an American lergyman, born in Milford, Mass., Nov. 4, 1778, ied in Washington, D. C., Oct. 1, 1845. The on of pious parents, his thoughts were turned tan early age to the subject of personal region, and while yet a youth he became a ber of the Congregational church in his were town. He soon after began to prepare mostly for college, with a view to the professor of the Christian ministry, and graduated Harvard university in 1804. After leaving ollege he went to study theology with the elebrated Dr. Emmons, of Franklin. After a rief period of study with that able theologian, e was called to the pastoral care of the Conregational church in Hillsborough, N. H., where he was ordained in 1805. Disagreeing rith his church in reference to what was known the "Half-way Covenant," not only refusing baptize the children of non-professors him-

but declining to exchange with other min
rs with a view to their performance of the

we in his parish, his pastoral relation in Hillsorough was severed early in 1809. In Novemer of the same year he accepted the pastoral
remon, N. H. The controversy into which
he had been drawn with his people in Hillsorough led him to a more particular examinaion of the whole subject of church memberhip and church ordinances, the result of which
ras his adoption of the general views held by
he Baptist denomination. He accordingly re-

linquished his pastoral charge in Mount Vernon early in the autumn of 1818, and in November of that year was baptized by the Rev. Dr. Baldwin, pastor of the 2d Baptist church in Boston. In 1819 he became pastor of the Baptist church in North Yarmouth, Me., where he remained but a year or two, having been called, in 1822, to the chair of theology in the newly established college at Waterville, Me. He entered on the discharge of the duties of his professorship with characteristic industry and zeal, and enjoyed the entire confidence of his patrons until he was called to fill a more responsible post. An effort having been made to resmoitate Columbian college at Washington, and obtain an endowment which should secure it against the embarrassments under which it had for some time labored, Dr. Chapin was selected as a suitable person to preside over its affairs. He was elected president of that institution in 1828, and continued to preside over it with marked ability until 1841, when he resigned a poet which he had filled with honor to himself and with advantage to the college. He continued to reside in Washington until the time of his death. Dr. Chapin was a scholar of large attainments, amiable in temper, yet earnest and energetic; prudent, but always true to his con-victions and firm in maintaining them.

CHAPIN, WILLIAM, an instructor of the blind, born in Philadelphia in 1802, occupied the early part of his life in literary pursuits and in the publishing business. In May, 1840, he assumed the function of principal of the Ohio institution for the blind, and did much to improve the system of education there, the number of pupils having increased under his administration from 18 to 72. Having investigated kindred institutions in various parts of the United States, he visited Europe in 1845, and embodied the results of his investigations in a report to the legislature of Ohio, "On the Benevolent Institutions of Great Britain and France." Resigning his post in Ohio in 1846, owing to changes made by the legislature, he was elected in Sept. 1849, principal of the Pennsylvania institution for the blind, which roost he still holds.

post he still holds.

OHAPLAIN, a clergyman appointed to say prayers and to perform divine service, and stached to some body of persons or the household of an individual for that purpose. In the United States chaplains are appointed to legislative bodies, hospitals, prisons, regiments, and vessels of war. In Europe chaplains are attached to courts, and also sometimes to the families of the nobility. The origin of the term is generally associated with chapel. It belongs both to the Catholic and Protestant churches. In England, chaplains are exempted, in respect of their appointment, from the operation of the laws against plurality of benefices.

OHAPLET. See Brads.

CHAPLIN, JERRHAH, D.D., an American minister of the Baptist denomination, born in Rowley, Mass., Jan. 2, 1776, died at Hamilton, N. Y., May, 1841. His heart was imbued with religious feeling at a very early age. He graduated at the college of Rhode Island, afterward Brown university, in 1799. After graduating he was immediately elected tutor, and remained in that capacity for about 3 years. In 1802, he became the pastor of the Baptist church in Danvers, Mass., which relation he sustained until 1818, when he was selected to take charge of the literary and theological seminary then about to be commenced in Waterville, Mc. This institution had its origin in a desire to promote theological education among the Baptists of New England. More comprehensive views soon prevailed, and the seminary was changed into a col-lege in 1820. In 1821 Dr. Chaplin was elected its first president. He administered the government of the new college with great discretion and success for about 12 years. After retiring from the presidency of the college, he became pastor of the Baptist church in Rowley, his native town. Subsequently he became the pastor of the Baptist church in Willington, Conn., where he remained till near the close of his life. Few men of the past generation were more entitled to the respect and veneration of mankind than Dr. Chaplin. His own denomination, especially, owe him a debt of gratitude for his powerful and indefatigable efforts to promote the education of its ministry.

CHAPMAN, GEORGE, an English poet, the earliest English translator of Homer, born probably at Hitching Hill, in Hertfordshire, in 1557, died in London, May 12, 1684. After studying 2 years in Trinity college, Oxford, where he was distinguished for his knowledge of the classics, he went in 1576 to London, where he enjoyed the friendship of Spenser, Shakespeare, Marlowe, and Jonson, and the patronage of King James and Prince Henry. He published a translation of 7 books of the Iliad in 1598; of 12 books in 1600; and of the whole poem in 1608. It is in the lofty 14-syllable English verse, and of a vigorous and imaginative character more accordant with the spirit than the letter of the original. It has retained its popularity both with poets and scholars, though less polished and less accurate than the version of Pope. Pope said that it was "something like what one might imagine Homer himself would have written before he arrived at years of discretion;" Waller could not read it without transport; and Keats has expressed his admiration of it in one of the most beautiful of his son-Chapman afterward translated the Odyssey, the Homeric hymns, and portions of Ovid, Terence, Musæus, and Petrarch. He was also a voluninous writer of plays, only passages of which are now esteemed. He was associated with Jonson, Marston, and others, in writing the comedy of "Eastward, Ho!" which contained severe satirical reflections upon Scotchmen, and was therefore so ungrateful to King James, that he caused the authors to be for a short time imprisoned. An imitation of Terence entitled "All Fools," was highly applauded by

his contemporaries; and portions of the transport of "Bussy D'Ambois" were highly estected by Charles Lamb. A handsome edition of his translations from Homer was published a London, in 5 vols., in 1858.

CHAPMAN, John Garset, Az artist, born in Alexandria, Va. ing his taste for design, he with liberality of a friend to view to study and practise his art there was years. After his return to the U is he removed to the city of New York his rare union of mechanical is artistic taste, he rapidly obtained ment. He has executed many or for the illustration of works of the among which are Harper's Bis among which are Harper's Bis among which are Harper's Bis along which are Harper's

CHAPONE, Mrs. (HESTER MULSO). IN Explish authoress, born in Northamptonshire in 172, died at Hadley, Dec. 21, 1801. At the age of years she is said to have written a running and she early studied several languages and treatises on morals and philosophy. Her first publications were the story of "Fidelia" in the "Adventurer," and some verses prefixed to her friend Miss Carter's translation of Epicton. In 1760 she married Mr. Chapone, who died within less than a year. In 1770 she accompanied Mrs. Montague to Scotland, at when request she soon after published her "Latters on the Improvement of the Mind." In a will ume of "Miscellanies," which subsequently appeared, are several letters addressed by her to Richardson, controverting some of the maximum put forward by him in his "Clarissa Harlows."

CHAPOO, a maritime town in the province of Che-kiang. China, situated on a promotory on the N. side of the estuary of the Tabastage (or Tsien-tang), communicating by canal win Hang-chow-foo, of which place it is the part. Its suburbs, which are very extensive, and the seat of most of the trades, extend along the water's edge. About half a mile in their rest is the walled town, 5 m. in circumference, exclosed within which is the Tartar town. In the rose is very shallow, and the tides are rapid, but there is deep water in the roadstead all the trade of China with Japan is carried as from this port. The soil of the neighboring country is extremely fertile and well waters, and the surface is interspersed with nanascus villages, pagedas, temples, &c. The adjacent by the British, after an obstinate resistance, May 18, 1842.

ance, May 18, 1842.

CHAPPE, CLAUDE, a French engineer and mechanician, born at Brulon in 1763, died Jan. 23, 1805. Having invented an ingenious system of signals to communicate at a distance whis friends, he presented it to the French lagicalities assembly in 1792. It was according

ried between Paris and Lille, on a length of 48 ragues, and was adopted by the government. happe established several lines in France, and me one running N. was first put in motion to nounce the recapture of the town of Condó from the Prussians. The inventor was at once rewarded by the convention, which, by a decree, appointed him ingénieur télégraphe. The lines were extended all over France, and the system was also adopted, with some alterations, through Germany and England. The attacks to which he was subjected, by persons jealous of his invention, preyed so much upon his mind that he committed suicide.

CHAPPE D'AUTEROCHE, Jean, a French astronomer, born at Mauriac, Auvergne, in 1722, died Aug. 1, 1769, in California. He was a priest, but giving his whole attention to astronomy, he became one of the assistants of Cassini in delineating the general map of France, and edited the astronomical tables of Dr. Halley. In 1760 he was designated by the academy to make an observation of the transit of Venus over the sun's disk, which Halley announced would happen June 6, 1761. He consequently set out for Tobolsk, in Siberia, which was pointed out as the most favorable point of observation. His mission was successfully accomplished; and returning to France at the end of 2 years, he published in 1768 his Voyage en Sibérie. The following year he sailed for California to observe another transit of Venus, which was to take place June 3. He was equally successful on this occasion, but died soon afterward. The results of his last expedition were published by C. F. Cassini, under the title of Voyage de la Californie.

CHAPTAL, JEAN ANTOINE CLAUDE, count de Chanteloup, a French chemist and states-man, born at Nogaret, Lozère, June 4, 1756, died in Paris, July 30, 1832. During his medical studies and practice he devoted much research to the science of chemistry, in which he soon became eminent, and was appointed professor at Montpellier, where he taught successfully the doctrines of Black, Lavoisier, and Cavendish. His uncle, a wealthy physician, left him a fortune, with which he established chemical works near Montpellier, being the first attempted of the kind, and by which he was soon enabled to produce various chemicals hitherto imported, such as the mineral acids, alum, soda, and salts of lead. The authorities of Languedoc heaped honors on him; the Spanish government offered him a pension of 56,000 francs to go to Spain; and according to his biographer, Washington wrote 3 times to Chaptal, inviting him to America. After the outbreak of the French revolution he published a political pamphlet, entitled "Dialogue between a Montagnard and a Girondist," and was arrested, but through the intercession of friends was liberated. The committee of public safety placed him in charge of the powder mills of Grenelle, which produced, under his management, 3,500 lbs. of gunpowder daily. Once

more returning to Montpellier, he was elected member of the institute, and devoted himself to science, till Bonaparte summoned him to the council of state, where he had the supervision When Lucien Bonaof national education. parte resigned the portfolio of the interior, Chaptal took his place as minister, and for 4 years performed the duties of the department with much administrative ability. He founded the conservatory, school of arts, and society for encouragement of industry, introduced the modern French system of weights and measures, established a model farm and a system of distribution of agricultural seeds, reorganized the prisons and hospitals, extended the network of highways over the face of the country, and organized the carrying out of the plans of extension of the Louvre and rues de Rivoli and Castiglione, that have since been completed by Napoleon III. In the midst of his usefulness a misunderstanding arose between him and Napoleon; some accounts say, because Chaptal re-fused to report in favor of beet root over cane sugar, while others assert that it was on account of an actress, named Mile. Bourgoin, to whom both emperor and minister paid their devotions. A reconciliation afterward took place, and the ex-minister was made count, senator, and grand officer of the legion of honor. On Napoleon's return from Elba, the count was appointed director-general of commerce and manufactures. Louis XVIII. struck him from the list of peers but left him on the roll of the academy. He died at a ripe age, a useful, but not a brilliant man. His fortune was much reduced by the indiscretions of his son. His works are all on chemical subjects, and may yet be consulted with advantage, especially his "Treatise on Chemistry applied to the Arts."

CHAPTER, the community of canons or pre-

bendaries attached to a cathedral or collegiate church, and presided over by a dean. (See Canon.) They govern the diocese during the vacancy of the see, in some countries have the right of choosing the bishop, and act as his advisers. In England, the appointing privilege was assumed by Henry VIII. as a royal prerogative; it is also exercised by the crown in Prussia and other Protestant countries. Some of the Roman Catholic cathedrals in England have their chapters, but there are none in the United States. They were suppressed in France by the civil constitution of the clergy, but restored by the concordat of 1802. The title of chapter is applied not only to the canons in their collective capacity, but also to their meetings, and to the place in which the latter are held. It is given to the assembly of members of a religious order, to the convocations of the military orders of the middle ages, and even to the meetings of certain corporations of mechanics and tradesmen. It was first used about the 8th century, and is supposed to have originated in the fact that at such sessions it was customary to read some or all of the chapters containing the rules of the

community.

position when Scott stormed and took Molino del Rey. His next step was anxiously looked for by the enemy. He had already advanced a force near to the city walls, and seemed to be making preparations for attack. Another portion of his force menaced Chapultepec in a similar manner. Blows had fallen so rapidly in places where they were least looked for, that Santa Anna was at a loss to divine whether the city or the castle were the real object of attack. Bravo sent word to Santa Anna that Scott would certainly first assault the castle, being too skilful a general to leave such a work in his rear. It was not till the Americans had all preparations ready for the assault-indeed, not until the castle was taken—that the Mexicans discovered that the demonstration against the city had been only a feint to prevent them from reenforcing Chapultepec. Scott from the first had determined to carry this work. His loss in killed and wounded at Molino indicated a different mode of attack from that by which the victory of the 8th was won. Accordingly, on the evening of Sept. 11, he ordered Colonels Lee and Huger to erect 4 batteries on a ridge war by the occupation of the

facing the fortress. These works were placed

the stormers planted their lade Many brave fellows were huris length a lodgment was effect meantime was doing the same having beside captured 2 batte in a strong body of the enemy with the rifles and the New Yo lina, and Pennsylvania voluntee in time to share in the hone After a stout resistance the en from their defences, and the A well as the standards of the: ticipated in the capture, wearamparts. The cessation of cheers of the victori were distinctly heard in a to Santa Anna that Chan Crowds of fugitives fallitold the same tale, and al. far as Mexico was concerned, w victory was gained with small to the Americans. The Mexicascertained, but must have been tors pressed forward, and soon

CHARA, an aquatic plant a

, and always turn in a contrary direcm the rings on the seed-vessel.

RADE, a species of enigma, which condividing a word into syllables, each of ll be a complete word, and vaguely destroyer.

without naming, each of the parts and le word. For a charade to have literary is members must have some relation to ier, and unite in an epigrammatic point, invented in the latter part of the last, and has been most cultivated in Gerard France. The Mercure de France, prior evolution, contained stores of charades, and logogrimphs.—Actine Charades in obscurely indicating the signification rords by pantomimes and dialogues.

RBAR, or Choubar Bay, one of the best on the coast of Beloochistan, in the ocean. Ras Charbar, the E. point of is in lat. 25° 16' N., long. 60° 35' E. On ide of its entrance is the town of Charp. 1,500, surrounded by a rampart of d garrisoned by the imaum of Muscat. f this are the ruins of the Portuguese ant of Teez probably the Tiz of Edrisi

Troesa of Nearchus.

RCOAL, the solid residue obtained by ng organic bodies to destructive distilla-Animal charcoal has been described BONE BLACK. Wood charcoal is an imrm of carbon, containing the ashes or combustible portions of the wood from t is prepared, and also some of its volrredients. The principal object of its tion is the greater calorific effect it than wood. Its properties vary greatrding to the nature of the substance ed for its preparation and the manwhich this is conducted. Well chard wood, as birch, beech, or maple, re-e form of the wood, is of a glossy black ourns without flame or smoke, rings truck, and bears a considerable blow breaking. It is still, however, brittle, ng square across the grain. It may be without soiling the fingers. Its weight owdered is nearly double that of water, masses it was found by Hassenfratz to eatly with its porosity, and this seemed pendent on that of the wood. Birch gr. 0.203; oak, 0.155; alder, 0.184; eech, 0.183. Other authorities make eights still higher. The composition of I prepared from a variety of woods has termined by M. Violette, who was emby the French government to conduct a experiments in this branch of manu-The same method of expelling the

The same method of expelling the matters was adopted in each case, viz, action of highly heated steam, so that rences of composition are evidently to red to the difference in the principles of ds, and to the greater or less difficulty nich they are decomposed. The followersents the proportions of the ele-

1 100 parts of charcoal:

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Species of charcoal.	Carbon.	Hydrogen,	Oxygen, nitrogen, and less.	Ash.
Furze	76.629	4.108	17.975	1.288
Ironwood	72,564	4,527	12,510	0.399
Cork	72,862	8,528	19,110	
Juniper	71.488	5.073	23,324	0.170
Wild pine tree	71.358	5.948	22,194	0.500
Hawthorn	70,798	4,443	28.419	1.843
Ash	70.895	4,589	24.874	0.699
Maple	70,069	4.613	24,592	0.425
Cherry tree	70.028	8.928	25,289	0.755
Lime	69.829	5,452	23,024	1.695
Yew	69.620	5.864	24.213	0.80
Sycamore	69,229	4.402	25,138	1.23
Chestnut tree, French.		4.326	27,126	0.421
Willow	68,900	5,133	24,684	1.888
Poplar, trunk	68.741	4.866	25.540	0.854
Ebony	68.047	3.868	28.880	0.203
Oak	67.421	4.099	28,480	0.20
Elm	66.862	4.669	28.181	0.288
Plum tree	66.118	5.756	27,530	0.59
Pear tree	65.924	5.310	28,244	0.525
Hemp stalks	62.127	4.976	81,501	1,89
Wheat straw	61.090	4.865	84.786	0.75
Leaves, poplar	52.514	4.819	41,289	1.88

The proportion of ash is smaller than the known composition of the woods would lead us to expect. This differs very much in different woods, in some amounting to 5 or even 10 per cent. Winkler obtained in charcoals the following proportions of ash in 100 parts:

Lime	8.55	Pine	1.88
Maple			
Ash	2.27	Beech	1.95
Elm	2.17	Scotch fir	1.11
		Birch	
Fir	1.44	Oak	0.75

Charcoal absorbs water from the air, and in a few days gains from 10 to 20 per cent, in weight. Afterward it loses and gains within these limits as the air is dry or damp. The temperature at which the carbonization has been effected appears to have a remarkable influence upon the amount of water the coal can absorb; the lower this temperature the greater the absorption. Some of Violette's results, obtained by exposing charcoal of black alder, prepared at increasing temperatures, to air saturated with moisture, are given in the following table:

Temp. of carbonization,	Quantity of water absorbed by 100
dog. Fahr.	on, of charcoal,
809	90.869
274	11.696
410	9.749
446	8.800
	C.666
	7.406
5 18	6.906
	6.900
590	7,200
696	4.504
	5.894
810	
1,878	
2,019	
0.000	
9,979	
9,789	

The temperature of carbonization also influences that at which charcoal takes fire. Wood charred at 500° F. takes fire at 644°; and when charred at temperatures ranging from 554° to 662° it is found to ignite at 680° to 698°, and at increased temperatures proportionally higher.



curate to calculate this by measure; for when in large quantities it would be by mere accident if 2 measurements gave the same result.—Charcoal possesses an extraordinary capacity of absorbing gases, some of them in very large quantity. Of ammoniacal gas it was found by Saussure to take up 90 times its bulk; of hydrochloric acid gas, 85 times; of carbonic acid, 35 times; of nitrogen, 71; and of hydrogen, 11. When filled with one gas and exposed to another, a portion of the former is evolved and its place supplied with a portion of the lat-ter. This absorption and condensation of gas within its pores is accompanied with an increase of temperature, which is sometimes sufficient to cause spontaneous combustion. This is particularly the case with freshly charred coal from the pits, and it is probable that many of the instances, so frequent, of the heaps taking fire after the charcoal is drawn out, or after being placed in the wagons, are owing to this property. Coal which is very black, without having been charred too much, and fine, is most likely thus to take fire. Charcoal also absorbs colors, and abstracts the smell and taste of organic substances in solution; hence its use for

stage, when it presents a repearance. In this condition, experiments of Sauvage, it con portion of combustible matter than at any time before or a only from 80 to 50 per cent. of ters are expelled. This produ rouz, or red charcoal, is espec the large iron establishments i of Ardennes, in France, the e furnaces being employed to h cylinders in which the wood i ever prepared, there is a want the product; still there may stopping the process at this ancient method of making throw the wood into holes d and keep it partially covered consuming. The common expr in pits" has reference to this 1 is practised in Austria, said was used by the Romans, which for pine and well-seasoned he localities where the ordinary ering are scarce. It is called ch Around 8 sides of an area of

sord wood and the lining, which is to preis from taking fire. The lining at the

of the enclosure is to be similarly pro-The wood is laid horizontally in 2 icross the enclosure, beginning at the ud, and piling all along to within 8 inches op of the lining. It is then covered as in methods; fire is set to the lower end, is partially covered, and vent holes are I near the upper end; other holes may ned, as the process goes on, through the In 24 hours, if the operation is well ted, charcoal may be drawn from the and, and its removal may be continued saively to the extreme end. In the ordi-lethod, the wood, which, to produce the uality or largest quantity of charcoal, the shortest time, should be seasoned, is ed in stacks, sometimes in horizontal but more frequently in ranges of logs aks placed on end, and in tiers one mother around a central aperture, which nded to the top of the heap. This aperfor a temporary chimney, and also for icing the fire for igniting the heap. For er purpose, a horizontal channel is someeft in the base, extending to the centre. les of wood are built up in a conical or herical form, and are closely packed nall wood to fill the apertures. They are convenient size, from 10 to 80 or 40 feet

ter, and in height not exceeding the or 3 sticks, or 12 feet. The outer surhen well filled in with chips and sticks, ared with small branches, twigs, leaves, or moss, upon which sods are laid or with the fine charcoal waste of prepalings, called braise. This is moistened ixed with as much earth as may be re-

When wet, it makes the best of all Around the bottom of the heap aperre left open for the admission of air and of the volatile products; as the proes on, these are closed, and new ones are near the top and in other places, aor as it is found desirable to check the on in some parts and hasten it in The heap is fired in the centre at

tom, and the fire gradually spreads in all ons, but especially toward the apertures ch the air is admitted. Insufficient supir prevents thorough consumption of the it a part of this must be sacrificed to te the necessary heat for expelling the matters from the rest. The art of the consists in burning up as little wood as e to produce the largest quantity of charnearly uniform quality. The first matnich escape are the aqueous vapors. They se in the cover, making it moist, and ss off in a yellowish smoke. After these lisappeared the smoke becomes lighter l, and then black and dense, emitting the pyroligneous acid, which grows stronger end of the process. The carbonization completed at the centre and top of

the heap, and gradually extends down its sides. In a heap half charred the finished portion is seen in the form of a reversed cone, the apex of which is at the bottom of the central axis of the heap. As the line between the finished and unfinished portions moves downward, the apertures for the admission of air should be kept in advance of it, the upper rows of holes being closed as the new ones are opened. The completion of each portion is indicated by the vapors changing from their black and dense appearance to a transparent light bluish color. The tarry matters, which collect mostly toward the close of the operation, run out in channels made beneath and around the heap. When the process is completed to the base of the heap all around, the openings are all closed, and the heap is left for one or two days, when it is partially uncovered, and the coal is drawn out, and spread around in thin layers. This is best done at night, when if any fire is still in the coal, it is quickly seen in the darkness. Whenever detected, it is quenched with water or wet sand or braise. The success of the operation depends wholly upon the experience, skill, and watchfulness of the collier. He must be always on his guard to prevent unequal falling in of the surface by too long continued action of the fire in any place, to prevent explosions, which sometimes occur from bad ventilation of the heaps, and to shield the heaps from the winds and rains. The wind blowing against them causes too great combustion on their sides, which is remedied only by closing the apertures and increasing the thickness and moisture of the covering. The time required for the operation varies with the size of the heap and the state of the weather. Small heaps may be charred in a week; large ones may require 8 weeks. A common yield is about 100 bushels to 8 cords of wood. Forty or even 50 bushels per cord are sometimes obtained. The condition of the wood, and the rapidity with which the process is conducted, are important considerations as affecting the yield. The more water present, the more heat is abstracted or fuel consumed to expel it. The aqueous vapor, moreover, as it passes over the coal already charred and highly heated, attacks this, converting a por-tion of it into carburetted hydrogen and carbonic oxide, which escape; by long continued charring at low temperature, this reaction and loss cannot occur. The more complete the seasoning, the better, then, the results. The advantage gained in this process by removing the bark as soon as the tree is felled, appears to be little appreciated. According to the experi-ments of Af Uhr, made in the districts where wood is coaled by the process above described in enclosed mounds, the loss of weight in pine wood deprived of its bark, and under cover in an open shed for 1 month, was .8458 of its original weight, while similar wood not, barked, exposed with it, lost less than 1 percent. in 4 months. The loss by rapid charring is shown in the following table, which presents in the first 2 columns the weights of charcoal obtained from 100 parts of wood dried in air by Karsten; in the 3d, those obtained by Stolze from wood thoroughly dried at a temperature of 213°; and in the 4th, those of Winkler from wood dried in a hot room:

Species of Wood,	Product by quick charring.	Product by slow charring.			
	Karsten.	Karaten.	Stolz.	Winkler,	
Young oakOld do	16.54 15.91	25.60 } 25.71 }	26.1	22.8	
Young red beech	14.57 14.15	25.57 26.15	94.6	17.5	
Young white beech Old do Young alder	18.19 18.65 14.45	25.22 } 26.45 } 25,65	23.9		
Old do. Young birch	15.80 18.05	25.65 25.05	24.4	17.6	
PoplarOld birch		24.70	28.8 24.4	17.7 17.6	
Birch 100 years old, well preserved Young deal (pinus pi-	12.15	25.10			
Old do	14.25 14.05	25.25 } 25.00 \$	23.4	20.6	
Young fir (pinus abies) Old do Young pine (pinus syl-	15.35	27.73 } 24.75 }	21.5	20.1	
ventrie)	15.59 13.75	26.07 } 25.95 }	23.7		
Lime		24.60	22.9 22.1	16.9 19.4	
Willow	18.40	24.60 27.95	22.2	15.0	
Cano Stems.		26.45	::	::	

Manufacturers, who distil wood in close iron vessels for the sake of all the products, obtain in 100 parts by weight:

Charcoal	28	to	80
Acid and water			
Tar			
Gaseous compounds, and aqueous vapor.	87	to	80

They consume beside about 121 parts of fuel outside of the retorts to produce the heat required. From these results, and from theoretical calculations as to the quantity of fuel necessary to produce the heat required to unite the oxygen and hydrogen in air-dried wood in the form of water, and to expel this by heating the charcoal to incandescence, it is apparent that no greater yield of carbon can be expected than that of 25 to 27 per cent. of the weight of the original material.—Other methods of producing charcoal require notice, as that in large brick ovens or kilns, and that in close retorts. The ovens for this purpose are constructed of various forms and sizes. A description, accompanied with a drawing, is given in the "American Journal of Science," vol. xvii. (1830), of one constructed by Mr. Isaac Doolittle, of Bennington, Vt., in 1829. It was 30 feet in diameter, 9 feet high, and of the capacity of 50 cords of wood. The product, he states, was uniformly from 55 to 60 bushels of coal to the cord. Rectangular kilns of this sort, holding 80 or 40 cords each, were not long after introduced at the iron works in the vicinity of Baltimore, upon the shores of the Chesapeake, and have since continued in successful operation. Pine wood is brought to them in vessels from the

forests around the bay. In are worked to great adstructures of this nature to localities where the o likely to soon become al in the vicinity of the ki a question whether the chare so dense and possesses so much a as that prepared in the woods. Massachusetts, where kilns of a cords each have been in use, the pa mated at 50 bushels to the cord; sometimes exceeded. Three sky allowed from the fill :o the e The cost of the procoaling, and discharging, Coaling in the woods by an when the wood is delivered 100 bushels.—Coaling in retorts upon a comparatively small: are heated by an external fire products are conveyed away in paper densed to obtain the pyrol naphtha, &c. Though the in the retorts is larger tl same quantity of wood methods, the greater expense of cos operation prevents its being adopted v The coal is the principal object. volatile products is always this country has never been : their preparation up otherwise, these proc have been in some it -Peat charcoal is prope d, same manner as wood u covered heap of circu or in ovens. As the works pechannels of the size of a block frequently left radiating fre heap. The peat is less co and the operation thereiose such close attention; but if the pe dried the process will go on or the fire may go out. ?
of a heap may be 2,500 cubic
18; tons of peat. The ti s of 181 tons of peat. is cooled and ready for to 14 days. The pro feet of charcoal, w The cost is estimacou a the raw peat being rated at 71 (Such is the experience at I TO of Weierhammer in . of carbonizing peal to 450° F. has been , in another the torreflou ! of the Irish peat company, at subjected to dry distillation, a second furnace filled w charred. The volatile pre driven into other appara condensed. From well-c small way 40 per cent. or obtained in good charcoal; of weight or 49 of bulk is of

As the charcoal contains all the ash, a large ingredient in most varieties of properties are thereby much impaired; cover so disposed to crumble, that it is or use as a fuel on the spot where it is L. Still its heating power causes it to ed among the best kinds of fuel; for 'use it is said to be preferable to wal. It is largely consumed in several , in Europe for metallurgic purposes, well in the blast furnace, both as ree quantity and the quality of pig iron It is also employed in the reheating r furnaces. In France, peat has been together with fine bituminous coal, and t of part charcoal and part coke is obvhich is described as a compact and s material, admirably adapted for the of steel and other similar operations. recal, when thoroughly dry, possesses ing properties in a remarkable degree. t noxious effluvia are entirely deprived by passing them through a thin layer of de the use of charcoal as fuel, it is applied other purposes. It is an essential ingrethe composition of gunpowder; that of w or alder being preferred for this pur-hen finely ground, it is used for polishsubstances, for lining crucibles, for finie fine smooth surface of the moulds of tings, for making crayons, and by the it was used for making ink, which has en surpassed for durability. This propwithstanding the causes of change and sition possessed so eminently by charnirably fits it for many uses requiring tibility. Stakes charred at the end ost durable and convenient landmarks. ave been dug up in the Thames un-, which there is good reason to believe ame which Tacitus describes as having aced there by the ancient Britons to the passage of Julius Cæsar and his The antiseptic properties of charcoal a valuable material for preserving meats voyages, by burying them in it in close In the process of cementation coarsely ed charcoal is used to impart its carbon ars of iron desired to be converted into n medicine it is used as an antiseptic rbent, being given internally in a powite, and applied externally as a dresswounds and ulcers. Charcoal made coanut shell and from bread is said to the best dentifrice known. When to be free from foreign matters, as for nents, charcoal may be purified by di-t in dilute nitric or hydrochloric acid, washing thoroughly with hot water. D, a municipal town, borough, and f Somersetshire, England, 13 m. from 140 m. from London, and 281 m. eter; pop. of the borough in 1851, id of the Chard poor-law union, 26,085. n is well built, on elevated ground, and a handsome parish church, and places

of worship for Baptists, Independents, and Wesleyan Methodists, an ancient town hall, formerly a chapel, an endowed grammar school, a national school, a large market place, a workhouse, a hospital founded in 1662 and rebuilt in 1841, and lace and woollen manufactories. There are also 2 iron founderies, and extensive warehouses on the wharf of the town, the latter being connected by a canal with Bridgewater. The troops of Charles I. suffered a defeat here under Col. Penruddock during the civil wars. CHARDAK, the Anava of Herodotus, sup-

CHARDAK, the Anava of Herodotus, supposed to be the salt lake Ascania mentioned by Arrian, a lake of Anatolia, 14 m. N. W. of the lake of Buldur, surrounded by high hills with steep and lofty cliffs, yielding much salt. Length about 20 m.; breadth from 2 to 4 m. At its W. end is the village of Chardak.

CHARDIN, JEAN, a French merchant, born in Paris, Nov. 25, 1648, died in London, Jan. 15, 1718, went to the East to trade in jewelry, became the favorite purveyor of the shah of Persia, and eventually produced an admira-ble book of his travels and experiences in that country, which has been found true by subsequent travellers, and translated into many foreign languages. The London edition of 1686 contains only the description of his journey to Ispahan. Complete editions of the work, which is entitled Journal du voyage du chevalier Chardin on Perse et aux Inde eri-entales, par la mer Noire et par la Colchide, appeared in 1711 and 1785, and were followed by the most highly valued edition, brought out in Paris in 1811 by Langlès, the famous orien-talist, who enriched it with a map, and with an abridged history of Persia. A Protestant by birth, Chardin was compelled on his return from the East in 1681 to seek refuge in England where he was knighted and appointed agent of the East India company in Holland.

CHARENTE, an inland department of western France, formed principally out of the ancient province of Angoumois, deriving its name from the river Charente, by which it is drained; pop. in 1856, 878,721; chief town, Angou-lème. The soil is generally far from being ferfeme. The soil is generally in the tile. There are many shallow ponds, called étangs, some of them of considerable extent. Numerous caverns, some of great depth, are found, among which that of Rancogne, near La Rochefouceuld, is particularly remarkable. It seems as if earthquakes had been once frequent here; 2 rivers, the Tardouère and the Bandiat, the course of which is toward the Charente, disappear repeatedly, and finally are entirely lost before reaching that river. There are mines of iron, antimony, and lead; quarries of free and rag stone. The corn crop is poor, and scarcely sufficient for home consumption; but the vineyards, covering nearly 50,000 acres, yield a considerable sur-plus. Their produce is mostly converted into brandy, the superiority of that made at Cognac being universally acknowledged. Hemp, flax, and potatoes are extensively cultivated.



exterior commerce. There are several other navigable streams, and a canal from La Rochelle to Niort. The climate is agreeable; the surface is flat, and partly covered, especially in the neighborhood of the sea, with marshes yielding large quantities of salt. There are quarries of freestone; peat, and fine sand for the manufacture of glass, are also found. The soil is mostly calcareous or sandy, but never-theless yields large crops of grain and wine. Large quantities of brandy are exported. Cattle, horses, and sheep are raised in great numbers. Oysters are sent to Paris and London. Sardines form an important branch of trade, and vessels are fitted out for the cod fishery. La Rochelle, Rochefort, and the other ports have a considerable share of the colonial and coasting trade of France. Salt is extensively manufactured along the coast. There are manufactories of coarse woollen stuffs, soap, fine earthenware, and glass, with tanneries and sugar refineries. Three islands, Oléron, Ré, and Aix, the first two somewhat considerable in extent, lie near the coast of this department, to which they belong. The average annual value of raw material employed in manufacturing is about

army cent to Byzantium agai gave overwhelming evidence petency, was replaced by Photo say, once more invested v command. In 888 he took r of Cheronea, the fatal issue to have been mainly due to his The repeated appointment coalibre, who, as Timotheus tel to be a porter, can only be ace degeneracy of those then in with whom the athletic figure flattery, and unscrupulous reck carried more influence than ti many well-tried, brave, and or II. A Grecian statuary in bre of the celebrated statue know of Rhodes, was a native of Li pupil of Lysippus, and flouri close of the 8d century B. C. CHARGE, in military tecti

vance of infantry or cavalry posing force, with the object scattering the enemy's ranks be of the attack. Charges of in either in order of battle, in or

with shouts precipitate themselves upon the samy. If the charge fails to break the opbeing line, the attacking force retires in a bod order as may be, to re-form and repeat it, to await another opportunity. If successful, and the enemy break before it, the attacking berce must re-form, reload, fire on the fugitives, continue thus to gain ground until the cav-Pry come up. An indiscreet pursuit might bring pursuers under a flank fire or masked bateries, or within reach of the enemy's cavalry. For charge in column, see ATTACK.) orm square to receive the charge of cavalry. Devalry charge in muraille, echelou, or column. **Echel**on has the advantage of exposing the troops Charge in column is employed against Infantry deployed in masses. In such case, the cavalry form in columns by squadrons, and adwance, first at march, then at trot, increasing in speed to the wild gallop with which they hurl themselves on the foe. The squadron at the head of the column receives the fire, and, if it can penetrate the square, the succeeding squadrons complete the defeat. If, on the contrary, it fails to make impression on the wall of bayonets, it breaks to the right and left to mask the other squadrons, who ought to charge ere the infantry can reload. A skilful commander will endeavor to draw the enemy's fire on skirmishers, or on a curtain of light infantry, and seize the moment after the pieces are dis-On the other charged to urge his charge. hand, the officer in command of the infantry must be on his guard against such feints. Coolness, steadiness, and the most perfect discipline are the qualities which enable infantry to sus-When the infantry fire tain cavalry charges. is reserved and delivered with precision at, the breasts of the attacking squadron, the first rank of men and horse are usually overthrown, and form a rampart which embarrasses the attack of the squadrons following. The passage of defiles in retreat should be always secured by a charge of cavalry. In charging artillery, it is necessary first to defeat the troops that support it. When pieces are isolated, cavalry form a crescent having the hollow toward the fire, and, advancing the points or horns of the figure till they arrive beyond the side range, they dash on the battery and sabre the gunners. Troopers usually cheer when they attack, but sometimes charges have been made in silence. In the days of chivalry the charge consisted of individual tilts of knights and men-at-arms. Later, the cavalry on both sides approached to 80 paces, where they exchanged pistol fire, and the party which suffered most retired. Yet later, they advanced to 30 paces, fired, and took to their sabres. Frederic the Great was the first who ordered his men to charge sabre in hand, commencing the gallop at 50 paces. Single charges have often decided battles. At Eylau, the whole French cavalry under the duke of Berg charged at once on the enemy, with a momentum that overthrew the Russian horse and penetrated two lines of in-

fantry. During the French retreat in Spain, at Medellin, on the Guadiana, Gen. Latour ordered a charge on the pursuing Spaniards with such effect that he put 15,000 of them hore du combat, and took 6,000 prisoners and 40 guns. A main feature of Napoleon's tactics was a grand charge of the cuirassiers and heavy cavalry of the reserve. It failed him, however, at Waterloo. The history of warfare abounds in records of brilliant charges, few pitched battles being fought without one or more worthy of commemoration. The charge of the British light cavalry at Balaklava, against a force which it was madness to encounter, is the most recent instance. (See Balaklava, and Cavalex.)

(See BALAKLAVA, and CAVALEY.)

OHARGE D'AFFAIRES, the title of the 4th rank of diplomatic agents. They are accredited not to the sovereign but to the department of foreign affairs, and are appointed by and responsible to the minister of state of their own country. They were not recognized in European diplomacy till near the 18th century. By the congress of Vienna in 1815, they were made the 8d order of diplomatists, which was changed to the 4th by the congress of Aix la Chapelle in 1818. The title is given to the agent whom an ambassador or envoy, by virtue of authority from his prince or state, appoints to conduct in his absence the affairs of his mission.

CHARIKAR, a town of Afghanistan, pop. 5,000, containing a castle, the residence of a local chief. It has an active commerce in coarse cotton goods, and a carrying trade of some importance across the Hindoo Koosh. In 1841 it was the seat of a British garrison, afterward almost wholly destroyed in its retreat to Cabool. CHARIOT, among ancient nations, a two-

wheeled carriage, open above and behind and closed in front, and used in war, in public games, and for the purposes of common life. The axle of the Greek charlot was usually made of oak, ash, or elm, though Homer describes the chariots of Juno and Neptune as having metallic axles. The wheels were about 4 feet in diameter, and each consisted of a nave bound with an iron ring, of 10 spokes, a felly of elastic wood, and an iron tire. They were fastened to the axle by pins, and the overthrow of Caomans in his contest with Pelops was caused by the treachery of his charioteer, who inserted a linchpin of wax. The Lydians and Romans sometimes attached 2 or 8 poles and spans of horses to their chariots, but the Greeks rarely added a third horse. From the earliest historic periods chariots were used in war both by the Asiatic and the classic nations. The famous scythe chariots, whose spokes were armed with long hooks and sickles, were chiefly used by the ancient Persians, Britons, and Gauls. warriors of highest rank among the Greeks, Romans, and Jews, either fought from their chariots, or sometimes in close combat, dismounted. In the Roman games chariots were often decorated with sculptures and enriched with gold and ivory. The triumphal chariot,



follows a S. course to the Missouri river, which it joins near the S. extremity of Chariton co., Mo. It is about 250 m. long, and is navigable for 50 m. The E. Chariton and Middle fork are its principal branches.

CHARITON, a county in the N. central part of Mo., derives its name from the Chariton river, by which it is intersected. It is bounded W. by Grand river, and S. W. by the Missouri. It is also drained by Yellow and Wolf creeks, which furnish water power for several mills. The soil is fertile and adapted to pasturage. The surface is gently undulating and covered with forests and prairies. Stone coal and limestone are found in large quantities. In 1850 this county produced 2,667,908 lbs. of tobacco, 377,397 bushels of corn, 14,592 of wheat, and 34,170 of cats. It contained 12 churches and 1 newspaper establishment. There were 1,000 pupils attending public schools, and 500 attending academies or other schools. Pop. in 1856, 9,211, of whom 2,198 were slaves. Capital, Kaytesville. CHARITY, BROTHERS OF. I. An order of

CHARITY, BROTHERS OF. I. An order of religious hospitallers founded at the end of the 18th century, and since denominated Billetins. II. A religious order in the Roman Ca-

lar institutions in other countri of charity are now to be found i civilized land. Louis XIV. gran ent to this institution in 1657, finally confirmed by the legate (1660. The charity and devotion men had made them so useful that even the revolution spared continued their work of benefices without restraint. One of the fi new government was to open to usefulness, and Napoleon placed protection of his mother. The vows, which are renewed every year 1848 the number of establis sisters of charity throughout t United States not included, w under the charge of about 12,000 American branch of this com established at Emmitsburg, Md Mrs. Eliza Seton, their first me In 1852 there were \$8 houses un of the sisters in different parts States, and the number is constant In the diocese of New York, th 250 sisters of charity, having we

h occasions during the night before the of the wedded pair, with all sorts of pans les, and iron and copper utensils (chaly-), producing every variety of discordant , and accompanying them with derisive and obscene songs. The charivarists usucontinued their uproar until their wrath soothed by drink or food. The council of attempted to put a stop to this nuisance, frequently occasioned disturbances. In French towns, as for instance in Lyons, practice was maintained as late as the In Brittany the term charivari . century. also applied to aggravated collisions beon husband and wife. Xantippe throwing st classic type of this sort. In the of ombre the turn of 4 queens is called vari. The Germans possess a work on origin of Katzenmusiken by Phillip, which eared at Freiburg in 1849. French literate boasts of a still more comprehensive work on the same subject: Histoire, morale, ivile, politique, et littéraire, du charivari, Luis son origine vers le 4me siècle, by Dr. ybariat de St. Flour, with a supplement Eldi Christophe Bassinet, which brings historical record of charivaris down to

JHARIZI, JUDAH, one of the most remarkathe Hebrew scholars and poets of his day, born Xeres, in Spain, time unknown, died before

Little is known of his life. He received his education at one of the rabbinical schools for which Spain was so celebrated in the mid-lie ages. Although he was one of the restoners of Hebrew literature, his writings were strongly tinetured with the genius of Arabic poetry, which he had studied with great care. He translated the philosophical works of Maimonides and the poems of Hariri from the Arabic into Hebrew, and composed a Hebrew imitation of the latter, entitled Tahkemoni, which is one of the curiosities of literature.

CHARLEMAGNE, EMPEROR OF THE WEST.

See Charles I. (Germany.)

CHARLEMAGNE, JEAN ARMAND, a Frenchman, born Nov. 30, 1759, died in Paris, March 6, 1838, who left the study of theology to become successively attorney's clerk, soldier, writer on agricultural subjects and political economy, and finally actor and dramatist. The most popular of his plays was one entitled Lescuper des Jacobins. He was also the author of several novels; that entitled Timon Alcests, ou le misanthrope moderne, was commonly attributed to him, but was written by another person of the name of Charlemagne.

CHARLEMONT. See GIVET.

CHARLEROI, or CHARLEROY, a Belgian arrondissement, in the province of Hainaut; pop. increased from 131,025 in 1846 to 170,324 in 1857. Charleroi, or Charleroy, the fortified chief town of the arrondissement, is situated on the Sambre, on the railroad from Brussels to Namur, 38 m. from the former city, and since 1856 con-

nected with Paris by the Northern railroad via Maubeuge and St. Quentin. There is also a railroad from Louvain to Charleroi; the Sambre and Meuse railroad branches south of Charleroi; and via Erquelinnes the town connects with the Paris and Cologne railroad. Thus accessible from all parts, the town is in a very flourishing condition. The glass works here are the most extensive in Belgium. annual yield of the collieries in the vicinity, which give employment to 8,845 miners and 118 steam engines, is estimated at 8,000,000 cwt. There are about 6,000 nail-makers in the adjoining country, and 70 high furnaces, 50 iron founderies, and 90 coal pits, almost all of which have sprung into existence within the last 30 years. There are also tanneries, dyeing establishments, rope-walks, salt and sugar refineries, and factories for spinning wool. The fortress was commenced by Charles II. of Spain, in 1666, and completed by Vauban for Louis XIV. It is a hexagon, with 5 counterscarps, 2 hornworks, and 5 ravelins. It has changed masters several times, and in 1794 stood a vigorous siege, and held out until all the advanced works were levelled with the ground, and until 4 assaults had been made by the French, when it capitulated. It was restored in 1816 under the direction of the duke of Wellington.
OHARLES, a S. W. co. of Md., separated

CHARLES, a S. W. co. of Md., separated from Va. by the Potomac river; area 450 sq. m.; pop. in 1850, 16,162, of whom 9,584 were slaves. The surface is uneven and the soil rather inferior. The forests consist mainly of oak, chestnut, ash, cedar, and locust trees. In 1850 this county produced 458,684 bushels of corn, 149,583 of wheat, 25,684 of oats, and 2,862,300 pounds of tobacco. There were 28 churches, and 784 pupils attending the public schools. The first settlement in Charles co. was made in 1640.

Capital, Port Tobacco.

CHARLES. The sovereigns of this name will be treated according to the alphabetical order of the countries over which they ruled, viz.: 1, England; 2, France; 8, Germany; 4, Naples; 5, Sardinia; 6, Spain; 7, Sweden.

L ENGLAND.

CHARLES I., the second of the house of Staart who sat on the English throne, was the 8d son of James VI. of Scotland and I. of England, and Anne, daughter of Frederic II. king of Denmark; born at Dunfermline, in Fifeshire, North Britain, Nov. 19, 1600, previous to the accession of his father to the throne of England; became heir apparent to the crown on the death of his elder brother, Prince Henry, in 1612; was created prince of Wales in 1616; succeeded to the British throne on the demise of his father in 1625; and was executed Jan 30, 1649. At an early age he was thrown into that fatal association with worthless favorites, which seems to have been the bane of his house. In the beginning of the year 1623, a marriage had been negotiated at the court of Spain, principally by means of the earl of Bristol the English



"of all the proceedings connected with the Spanish match, it may be fairly inferred: 1st, that had the treaty been left to the address and perseverance of the earl of Bristol, it would have been brought to the conclusion which James so carnestly desired; 2d, that the Spanish council had ministered ample cause of offence to the young prince by their vexatious delays and their attempts to take advantage of his presence; 3d, that he, nevertheless, entered spontaneously into solemn engagements from which he could not afterward recede without the breach of his word; 4th, and that, in order to vindicate his conduct in the eyes of the English public, he was compelled to employ misrepresentation and falsehood. But the great mis-fortune was the baneful influence which such proceedings had on his character. He was taught to intrigue, to dissemble, to deceive. His subjects, soon after he mounted the throne, discovered the insincerity of their prince; they lost all confidence in his professions; and to this distrust may in a great measure be ascribed the civil war which ensued, and the evils which befell both the nation and the sovereign." It is worthy of remark, that when, shortly after

of evil consequences to both ki and the wife of Buckingham to say the least, as fatal to Charles as were the teachings that minister, and the animosis the crown, among the common Charles I., though he had edu complishment, and a calm, which obtained for him the cr wisdom than he possessed, had of perception nor depth of in slow, formal, destitute of preto convince, and, when he out persuaded, inaccessible to pers this, that long before Bucking to shape his faculties, he had s tised, and heard nothing prais or in his father's court, but de ity, the propriety of obtaining means however false or dish what James loved to call the His position, moreover, was at came to the throne, no one bu ishing faculties, of the clearest the soundest judgment, the 1 will, the most thorough wisdom

ie part of Charles; nor was the proplies by such means as he could withiid, by benevolences, loans, extortions d that would be tolerated, any new n the part of kings, or any greater nim than it had been in his father, or Elizabeth, or in Henry VIII., or in I., every one of whom had regarded is as a necessary evil, to be endured it could not be avoided, to be disth as long as, and whenever, it was sible. All had avoided summoning ept when government could not be without them; all had at times canes snubbed, and whenever they dared sm. Each one of them, unless it were James, had committed far grosser of privilege, without their raising so murmur of discontent, than Charles ipted. His principal error seems to , that he invariably made concessions ought to have been firm, and was inbstinate when he ought to have made is; his chief fault, that no one could m, friend or enemy; that he never o any promise, either of support to the f amnesty to the other; so that his eaded his victory almost as much as is defeat, for they knew that no promwithhold him, if successful, from abuscess. At the opening of his reign, inwar with Spain, and wanting money t it, he was compelled to summon a t, which, as soon as it met, began to rievances, and proceeded to impeach of Buckingham, without granting any To avoid sacrificing his favorite, the slved the parliament, quarrelled with of lords as well as with the commons, nitted 2 members, Digges and Eliot, rs, Bristol and Arundel, to the tower. idently at the instigation of Buckingch coincided with his naturally arbirielding, and hasty temper, that, being igaged in hostilities with Spain, which not hope to prosecute successfully withd of his parliament, he plunged into er and a wholly unnecessary war with and proceeded to carry on both by forced loans and expedients undenial, as they were odious to the people of

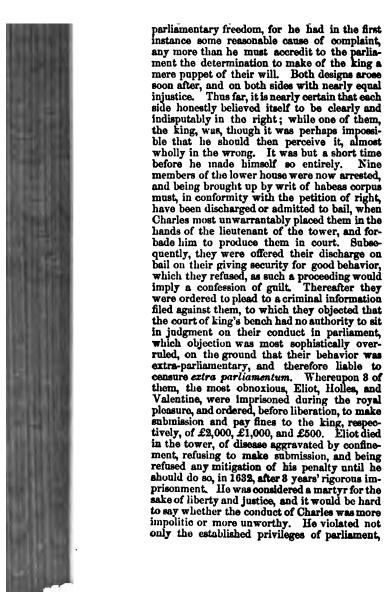
Two years afterward, a second parras summoned, and again adjourned, ne to prevent Buckingham from being yy vote the "grievance of grievances," hief cause of all the calamities of the

On the following day it was prote the king, after giving the royal ase bills of subsidy; but not until it had e petition of right, to which the peos appealed as to their chief protection e encroachments of the prerogative, ich the crown was ultimately forced.

In the mean time, the English arms

ered with disgrace; yet still the king in retaining Buckingham at the head

both of his councils and of his army; and that favorite was on the point of again setting sail from Portsmouth, in all probability to bring fresh discredit to the English fleet and army, when his career was cut short by the dagger of a fanatical assassin, Felton, in time to save the military prestige of his country from further degradation, but not to spare his king the universal odium and distrust of the nation. Almost immediately after the death of Buckingham, Rochelle, for the relief of which the war with France had been nominally, at least, undertaken, surrendered, and the last strong-hold of Protestantism in France, and one of its strongest bulwarks throughout the whole world, had ceased to exist, the blame and disgrace of its fall both resting wholly upon Charles; who, if he could have at this stage of proceedings but consented to a few necessary and moderate reforms, and would have set himself at the head of a Protestant movement, would have been supported by his people to almost any extent, and might have become as popular as he was ever afterward odious throughout the realm. this moment, in thoroughly ill humor, the parliament reassembled; and, although ordered by the royal message to take the bill for tonnage and poundage into immediate consideration, proceeded to take up the grievances, religious and political, of the community, the former having the precedence, owing to the increasing influence of the Puritanic party. The king was now guilty of a piece of mean and dishonest sophistry and trickery, which cannot be explained or understood, in substituting for the petition of right, which had passed into a law and had received the royal assent, a garbled edition from which the assent had been removed, and the evasive answer which he had been compelled to cancel in the last session attached to it instead. The house was outraged. Charles himself, repenting of his folly, would, if he could, have laid the storm he had raised. But it was too late. The commons proceeded to the strongest measures. The speaker endeavored to adjourn the house, in obedience to an order he had received from the king. They again refused to adjourn, and ordered the speaker to put to the vote a remonstrance against the bill of tonnage and poundage; and when he refused to do so and arose to depart, he was held down by force in his chair by Holles and Valentine, while the former delivered an extraordinary and violent protest, declaring all persons enemies to the country who should attempt to bring in Popery, Arminianism, or other doctrines ob-noxious to the true and orthodox church; who should advise the taking tonnage or poundage; or who should pay tonnage or poundage, the same not being granted by par-liament. This done, they adjourned themselves just in time to prevent the doors of the house from being forced by the captain of the guard; and the next morning the parliament was dissolved by the king in the house of lords, without sending for the commons. How far the



put himself so thoroughly in he had silenced all his own he and filled every person in the h few who desired to see the esta absolute monarchy and a per with the gravest and darke Nor was it to be denied that if ments had gone beyond the let tution, the conduct of Buckin as would justify in our days a confidence, and the refusal to until a change of ministry. however, as yet the practice, a in the established privileges Charles now, as if resolved to to the utmost, not only deter govern without parliament; did so for no less than 11 year he gave the church entirely is Laud, and the state into thos Wentworth, created earl of Str. severally promised him to use a ors to render him absolute in b of government. By the extresassumptions of Land, the Puri were led to believe that Charles were bent on reintroducing the of Rome; and although the su true, yet, knowing that it exis be blamed but they, for persisti conduct which could but aggrait. Ireland, in the mean time government of Wentworth, was to raise money in order to 1 exigencies without resorting to liament, was driven to the ve Scotland, maddened by the ki the instigation of Land, to upon her contrary to the fu the kingdom, actually rose in England, gained possession of 1 and Durham, the king having: attempt to raise funds to oppo summoning a parliament, of supplies, but which, as it pres

first to consider grievances, he dissolved within 20 days after its assembling, before it had given any positive reply to his demand. The lords were in his favor; and clearly he was too precipitate, for had the commons refused him any aid, most men would have deemed the dissolution justifiable; had they granted any, even the smallest, the Scots would have been deterred from their attempt. At this time Charles had a superb fleet of above 60 ships at sea, which he maintained by the illegal levy of ship money; but army he had none on which he could depend, nor any means to raise one. Wherefore, unless he would see the Scots march to York and take possession of the northern metropolis, there was no resource but to convoke the great council of the peers at York, who immediately demanded the assembling of the parliament and to treat with the Scottish rebels. In 1640 assembled the parliament which did so much, in the first instance, for the liberties of England, and afterward was guilty of such odious usurpation, known in history as the long parliament. Its first act was to impeach and then to proceed by attainder against both Laud and Strafford, the latter of whom was condemned and executed, abandoned by the king, for whom he had made great sacrifices. Some just and salutary laws were passed by this parliament; some illegal practices, which had been usual with the later English monarchs, were repressed; some grievances redressed; some rights of the subject firmly established; but, from the moment when it voted itself incapable of dissolution, the parliament changed places with the king; became distinctly the usurping power; made infinitely greater attacks, both on the prerogative of the crown and on the rights of the individual, than the most despotic of kings had ever attempted; arrogated to itself the power of regulating every thing in the realm, from the highest to the lowest; constituted itself a court of law, a court of justice, and a court of morals, exercising powers the most unheard of, and, in fact, altering the whole constitution of England from a monarchy into a perfect democracy, of which itself was the indefeasible and the sole exponent and ruler, until it should think proper to abdicate its own authority and descend from supreme despotism into private life, which no one supposed it ever would do, and, in fact, which it never did. An appeal to arms was now necessary, if England was to be a monarchy; for, as the king truly said, he might be called king, and be served on the knee, but he should be no more king than the meanest of his subjects, should he concede all that was now asked of Had he conceded a little on his first accession, he might, probably, have been the most popular king in Europe. Then he would concede nothing, and had irritated all his enemies to madness. When the head of Strafford was asked of him, and every reason of expediency, honor, faith, commanded him to be firm. he yielded. Now he was tied to the stake, and

could but fight with what weapons he had left to him. He set up his standard at Nottingham, Aug. 22, 1642; but the parliament was really in arms the first, and Col. Cromwell, at the head of a troop of horse, had seized the plate of the university of Cambridge, which would otherwise have gone to arm and equip men for the king. The first blood was shed at Edgehill (Oct. 23), where, as in all the first actions of the war, the high spirit and chivalrous courage of the undisciplined cavaliers prevailed over the inferior strength, spirit, and enthusiasm of their equally undisciplined antagonists. It is certain that, after the battle of Reading (April 26, 1648), and the advance to Brentford, London might have been taken, and the war concluded at a blow, but that the royalists, who had perceived by the pretensions of the king in the late negotiations at Oxford that he had abated nothing of his despotic intents, dared not allow him to prevail. The remodelling of the parliamentarian army followed; Cromwell and Fairfax became its generals; the former introduced a discipline as perfect as is known in any modern service, and created a spirit of enthusiastic fanaticism, equal to the spirit of enthusiastic loyalty and chivalry which animated the cavaliers; and by the union of the two, raised the late despised parliamentarians to be, what they proved themselves thereafter in every European country, the best troops in the world. Marston Moor (July 3, 1644) and Naseby (June 14, 1645) followed; the last blow was struck by Sir Jacob Astley, for the crown, at Stowe-on-the-Wold (March 21, 1646), when he told his captors: "My masters, you have done your work, and may now go play, unless you please now to fall out among yourselves." After some attempts at negotiation, marked by his usual insincerity and chicane, with the leaders of the parliament and the leaders of the army, neither of whom he chose to trust, while neither dared to trust him, Charles delivered himself up to the Scots, May 5, 1646, who, on Jan. 80, 1647, gave him up to the commissioners of the English parliament. Cromwell, who as yet entertained no definite views, nor saw any way of attaining the great elevation which he subsequently reached, was prepared to play the part subsequently played by Monk; and Fairfax, who was a truly upright and honorable man, and averse to all extreme courses, was ready to support him. Yet, even now, when terms were offered him by the Independents, so advantageous that Sir John Berkeley, one of his trustiest adherents, declared that "a crown so near lost was never yet so easily recovered as this would be, were things adjusted on these terms," the king madly refused to concede any thing, broke off all terms with the army, commenced new negotiations with the Presbyterians, and ultimately convinced both parties—all parties—that there was no truth in him. The discovery of a fatal letter to his wife, in which he assured her that he designed for those rogues, Ireton and Cromwell, no reward but that "for a silken garter, they should be fitted with a hempen rope," destroyed



tence of death was passed upon him, Jan. 27, and he was executed by decapitation on a scaffold erected in front of the banqueting house at Whitehall, Jan. 80, at 2 P. M.—Charles I. had 8 children by Queen Henrietta, 6 of whom survived him, viz.: Charles and James, afterward kings of England; Henry, duke of Gloucester; Mary, the wife of William, prince of Orange, and the mother of William, king of England; Elizabeth, born 1685, who died a prisoner in Carisbrooke castle soon after her father's death, Sept. 8, 1650; and Henrietta Maria, the wife of Philip, duke of Orleans, from whom, through a daughter, is descended the royal family of Sardinia. Charles was an elegant writer of English, and, in the early part of his reign, a zealous patron of the fine arts.—The writings attributed to him are indicated in Horace Walpole's "Royal and Noble Authors," and have been published under the title of Reliquia Sacra Carolina. Among them is the famous work, the Eikon Basilike, or "Portraiture of his Sacred Majesty in his Solitudes and Sufferings;" his claim to its authorship has been much disputed, though advocated by the Rev. Dr. Christopher Wordsworth, in his book entireached him in Brussels. In a to avail himself of the confusion in England after the downfi Cromwell's government, Charles self at Calais in Aug. 1659, but April, 1660, that he succeeded at Breda in opening a negotia Monk. His restoration to the land was voted by parliament or year, and on May 8 he was pro London, which city he entered ing departed from the Hague 6 de journey to London was one umph; and the whole of the c which it passed bore the aspe sal fair-day. So great was the alty with which Charles was with his usual wit, he observed his company, that he could not of him why he had stayed awa every body seemed so charm that he was at length come back. with open arms, reinstated with to give a guarantee, or to mal "It has been," says Macaulay o much the practice of writers, a ution of the soldiers was the first object of mlightened patriot; but it was an object while the soldiers were united, the most ne could scarcely expect to attain. On en, a gleam of hope appeared. General possed to general, army to army. On which might be made of that one aumoment depended the future destiny of non. Our ancestors used that moment They forgot old injuries, waived petty s, adjourned to a more convenient opity all dispute about the reforms which stitutions needed, and stood together, rs and roundheads, Episcopalians and terians, in firm union for the old laws of d against military despotism. The extition of power among king, lords, and ns might well be postponed, until it had ecided whether England should be govby king, lords, and commons, or by iers and pikemen." The reign of Charles arked by disasters and disgraces of all The Dutch fleets not only swept the l, but entered the Thames, burned the and dockyards at Chatham, and terrified izens of London, but maddened even han they terrified them with the roar of cannon. Dunkirk, a fortress won by or of the Cromwellian soldiery, in which de of the English nation was intimately d, and which was regarded as a com-on for the loss of Calais, was ignominsold to the French king, of whom Charles was the greediest and neediest penwhere all his servants were greedy and A frightful conflagration destroyed e city of London; a hideous plague deted whole districts. The name and er of Englishman, abroad, had sunk to rest state from the proud preeminence it had occupied during the stern domi-of the great protector. The whole f this most brilliant and amiable-whom is enemies could not hate-but most ess and purposeless of all the Stuarts, t one general saturnalia and grand orgie e, licentiousness, meanness, and riot. d May 21, 1662, to a virtuous and amiable uese princess, Catharine of Braganza, er of John IV., he outraged, neglected, ured her in the tenderest point, encourag-harem to insult her before his face. to maintain Protestantism, he signed at treaty at Dover by which he pledged f to make public profession of the Catholic religion, to join his arms to of Louis XIV. for the purpose of destroys power of the United Provinces, and ploy the whole strength of England by ad sea in support of the rights of the

of Bourbon to the vast monarchy of Louis, on the other hand, engaging to arge subsidy, and promising that if any ction should break out in England he

send an army at his own charge to sup-

s ally. This treaty was signed at Dover

in May, 1670, just 10 years after the day on which Charles landed at that very port amid the acclamations and joyful tears of a too confiding people. His scheme was frustrated by the refusal of the commons to grant him supplies for the war, and by their compelling him to dismiss his ministry, Clifford, Arlington, Buckingham, Ashley, and Lauderdale of the initial letters of whose names is composed the well-known enigmatic cipher, cabal. An al-liance with France brought about a quarrel with Holland. War against that country was declared in 1672 (March 17), but the indignation of the people being aroused by the proceedings of the government, the prime minister, Shaftesbury, retired from the cabinet, and Charles was compelled to make peace with Holland at the beginning of 1674 (Feb. 28). The excitement produced by the so-called popular plot, in 1678, led Charles to the fatal step of dissolvants. ing the parliament. The first of the 8 parliaments which he afterward successively called, met in March, 1679, and was noted for passing the habeas corpus act. The last of them was summoned to meet at Oxford. March 21, 1681, but proving as little compliant as the two preceding, he dissolved it, after a week's session. From that year Charles governed without a parliament, and his arbitrary course at length provoked the Rye-house plot, June 14, 1688, instigated by friends of constitutional liberty. The detection of the plot brought the noble heads of Lord Russell and Algernon Sidney upon the block; and Charles's reign, thus stained with the blood of these martyrs of liberty, was soon brought to a close. He died suddenly of apoplexy, and his death, as usual in that age, although without the smallest shadow of grounds, was attributed to poison. When he was almost in articulo mortis he declared himself a Roman Catholic, and received extreme unction, and the last rites of the church, at the hands of a proscribed priest, Father Huddleston, who was introduced by a secret passage, in dis-guise, into the royal bedchamber.—The follow-ing sketch of his character, by Macaulay, is almost an epitome of his reign: "He had received from nature excellent parts and a happy tem-per. His education had been such as might have been expected to develop his understanding, and to form him to the practice of every public and private virtue. He had pessed through all varieties of fortune, and had seen both sides of human nature. He had, while very young, been driven forth from a palace to a life of exile, penury, and danger. He had, at the age when the mind and body are in the highest perfection, and when the effervescence of boyish passions should have subsided, been recalled from his wanderings to wear a crown. He had been taught by bitter experience how much baseness, perfidy, and ingratitude may lie hid under the obsequious demeanor of courtiers. He had found, on the other hand, in the huts of the forest, true nobility of soul. When wealth was offered to any who would betray him, when



cared very little what they thought of him. Honor and shame were scarcely more to him than light and darkness to the blind. His contempt of flattery has been highly commended, but seems, when viewed in connection with the rest of his character, to deserve no commendation. It is possible to be below flattery, as well as to be above it. One who trusts nobody will not trust sycophants. One who does not value real glory, will not value its counterfeit. The facility of Charles was such as has, perhaps, never been found in any man of equal sense. He was a slave without being a dupe. Worthless men and women, to the very bottom of whose hearts he saw, and whom he knew to be destitute of affection for him, and undeserving of his confidence, could easily wheedle him out of titles, places, domains, state secrets, and He bestowed much; yet he neither pardons. enjoyed the pleasure nor acquired the fame of beneficence. He never gave spontaneously; but it was painful to him to refuse. The consequence was, that his bounty generally went, not to those who deserved it, nor even to those whom he liked the best, but to the most shameless and importunate suitor who could obtain an

Walters; 8, Charlotte Jemima I Boyle (alas Fitzroy), by Elizah Shannon; 4, Charles, surname by Mrs. Catharine Peg; 5, 4 Mrs. Peg, who died in infame Fitzroy, duke of Southampton, of Cleveland; 7, Henry Fitzroy, ton, by the same, ancestor of the ton; 8, George Fitzroy, duke of land, by the same; 9, Charlotte same; 10, Charles Beanelere, dul by the famous Nell Gwynn, 4 dukes of St. Albans; 11, Charle of Richmond, by Louise Queros woman, created duchess of Fortor of the dukes of Richmond; Tudor, by Mrs. Mary Davis.—Senet's "Own Time; "Evelyn's "respondence;" Grammont's Hamilton; Jesse's "Court of the Market of Richmond; Tudor, by Mrs. Mary Davis.—Senet's "Own Time; "Evelyn's "respondence;" Grammont's Hamilton; Jesse's "Court of the II. FRANCE.

CHARLES MARTEL, duke of mayor of the palace of the Frein 689, died in 741, was the of Pepin of Heristal, by his

vor of the palace to the young king Dago-The Franks were thus ruled by a n in the name of 2 children. This could endured; and the Neustrians first reagainst Plectruda, and the Austrasians ted Charles from prison, and proclaimed their duke. Under his command they ined Neustria, gained several victories, and d their western brothers to acknowledge mathority of their leader. Thus Charles me sole lord of both kingdoms, permitting rever the nominal reign of Clotaire IV., pert III., Chilperic II., and Thierry IV. utinue from 716 to 737. But on the death utinue from 716 to 737. he last, Charles appointed no successor and ined the supreme power, although not as-Franks. His energetic government at home sed the powerful Austrasian aristocracy to mit, as well as the prelates of Neustria and rgundy, while his valor enlarged the exof the Frankish kingdom. He waged suc-al wars against several German nations; ு uis brightest laurel was won in his struggle inst the Moslems, who, after the conquest Spain, had crossed the Pyrénées and attempt-to conquer Gaul also. The southern part this country had been first successfully proted by the gallant Eudes, duke of Aquita-, who had even routed the Moslems in 721 great battle under the walls of Toulouse; overpowered by the immense forces of the aders, he was eventually compelled to call assistance upon the duke of the Franks. Moslems had already penetrated as far as rs, when Charles at the head of his Frank-and German warriors met them a few es N. E. of that city. Both armies stopped, passed 6 days in desultory skirmishes beengaging in a decisive battle. At last, Oct. 3, 732, the powerful masses of Chrisinfantry received the charge of the Araa cavalry, and, "fighting with breasts as firm ramparts and with iron arms," withstood roken its repeated assaults until at sunset Saracens retired to their camp. In the confusion and despair of the night the various tribes of the Orient, Africa, and Spain were provoked to attack each other, and the remains of the host were suddenly dissolved, every emir seeking safety by a precipitate flight. At sunrise the Franks to their unbounded astonishment perceived that the enemy had left their camp and were retreating in haste toward the south. The Moslems had not dared to encounter again such formidable warriors. This victory, which took place 100 years after the death of Mohammed, checked the power of his adherents and saved western Europe from their further invasions. Charles, from his conduct on this great occasion and the vigor of his arm, received the surname of Martel, the "hammer" of the Moslems. His prudence prevented him from pursuing the retreating army; but he subsequently renewed the war, and forced the Arabian emirs, who had maintained their VOL. IV.-47

power over several cities of southern Gaul, to return to Spain. The whole of Aquitania was annexed to the Frankish empire, which was ruled by Charles, and after his death divided between his 2 sons, giving Austrasia to Carloman and Neustria to Pepin. The latter soon became possessed of the whole, and afterward assumed the title of king, being the first of the Carlovingian dynasty.

CHARLES I. (CHARLEMAGNE). See CHARLES

I OF GERMANY.

OHARLES II. (THE BALD), the 4th king of the Carlovingian dynasty, born June 18, 825, at Frankfort-on-the-Main, died Oct. 18, 677, in a village at the foot of Mount Cenis. The son of Louis le Débonnaire by his 2d wife, Judith of Bavaria, his birth gave rise to serious troubles between his father and his elder brothers. War followed, in which the old Louis le Débonnaire was harshly dealt with by his ungrateful sons; and his death, June 20, 840, found Charles holding nearly the whole western part of his father's empire. His claim being, however, disputed by his eldest brother Lothsire, who had assumed the imperial dignity, Charles, to maintain his rights, formed with his 2d brother Louis, king of Bavaria, an aggressive alliance against the emperor, and defeated him in a desperate battle fought June 25, 841, at Fontenay or Fontanet, in Burgundy. The victory, however, weakened their resources to such an extent as to prevent them from following it up. Charles and Louis renewed their alliance in a solemn meeting at Strasbourg, Charles taking an oath in the German language, and Louis in the vernacular of the people of Gaul. The words of this cath, which have been preserved, are the first monument of the Romance language, from which the French has sprung. The union of Charles and Louis brought Lothaire to terms; and the treaty of Verdun in 848 secured to the former the tenure of his kingdom, that is, the whole of Gaul W. of the Meuse, the Seone, and the Rhone, which henceforth was to be called France, and part of Spain N. of the Ebro. But the submission of all the provinces of this kingdom was far from being complete, and Charles had frequently to resort to arms against the people of Brittany and Aquitania. Under his reign the Normans, who had previously desolated the coasts of Gaul, invaded the country by ascending the rivers, burning and plundering the villages and the cities. Paris plundering the villages and the cities. Paris itself had to suffer by their ravages, Charles being unable to afford protection against the On the death of his nephew, the emperor Louis II., Aug. 12, 875, Charles seized upon the imperial crown; but his power seems to have been rather diminished by this assumption of a new title. A few months later he was compelled to sign a decree by which the tenure of the counties was declared hereditary, which decree was the foun-dation of the feudal system in France. This was the last important act of his otherwise inglorious reign

OHARLES III. (THE SHOPLE), the 8th king



throne of his ancestors.

CHARLES IV. (THE FAIR), the last king of the direct line of the Capetian dynasty, born in 1994 died at Vincennes, Jan. 31, 1328. The 8d son of Philip IV. the Fair, he succeeded his brother, Philip V. the Tall, in 1322, visited with severe punishment the Lombard money changers for their many extortions, the judges for their prevarications, and the barons for their unlawful encroachments upon private property. secretly aided his sister Isabelle in her revolt against her husband, King Edward II. of England, made a futile attempt to be elected emperor of Germany, and died leaving his 8d wife, Jeanne d'Evreux, pregnant. On her being de-livered of a daughter, the crown went to Philip of Valois, the cousin of Charles, and the grand-son of King Philip III. the Bold. The Capetian direct line ended by 8 brothers succeeding each other: Louis X., Philip V., and Charles IV.; so did the collateral branches of Valois and Bourbon. CHARLES V. (THE WISE), the 8d king of the family of Valois, son of King John II., born Jan. 21, 1887, died at Vincennes, Sept. 16, 1880. He was a prince of very little military genius, but by the duke of Burgundy to F great ability, with much taste for learning. Being Nov. 27, 1882, the bettle of 1

tamara against Pedro the Urus Charles had secured for him was of great service in his na consequently instrumental in over England. Meanwhile, tr and prosperity had been rest while several important less were founded, among the num brary, now the bibliothèque in reign the Bastile was also erec a view to hold the Parisian Charles V. was indeed, if not on at least one of the most meeful CHARLES VI. (THE MAD, C the 4th king of the family of Paris, Dec. 8, 1868, died Oct. 21 of Charles the Wise, he was but ! his father died; and his uncle jou, Berry, Burgundy, and Bo to reign in his name. out against their oppressive as pecially in Paris, where the called Maillotins, from the muthey were armed. Young O

was violently frightened by the sudrance of a ragged maniac, who stopped and cried: "Do not proceed further, ;; you are betrayed." This overpowalready weak mind, and he fell into f derangement, which was the next avated by his running the risk of being ive at a masquerade ball. Henceforth

led from attending to the duties of ou; and his uncles again seized the government, the duke of Burgundy to secure his own ascendency. The ther, Duke Louis of Orleans, soon ato snatch the power from his hands, posite parties, Orleanists and Burarose to divide the court and the nae contest grew fiercer when John the ncceeded his father, Philip the Bold, tred toward his cousin of Orleans could ratified by causing the latter to be Nov. 23, 1407. The powerful count nac, the leader of a formidable solthe south of France, at once espoused of Orleans, and henceforth this faccalled by the name of Armagnacs. commenced between these and the ins, and the unfortunate king was enlected and left to the care of menials; wife, Isabella of Bavaria, whom he had 1 July, 1385, gave herself up to love l political intrigues. The daughter of saler, Odette de Champdivers, someed the little queen, from having been ess, was almost the only one who ny consolation to the king's distracted uring his lucid intervals he had sense sympathize with the misfortunes of The condition of the country was beorse every day, when a new enemy nthe person of King Henry V. of Englanding on the coast of Normandy, ictory over the French at Agincourt, 1415, as complete as those of Crecy ers. France was every where given age, murder, fighting, and bloodshed. d of 4 years, there seemed to be a negotiations were entered into; but ierous murder of John the Fearless, d in the presence of the dauphin ept. 10, 1419, gave a new impetus to var. Philip the Good, son of John the ager to avenge his father's death, with erous wife of Charles, and King Henry gland, concluded a treaty at Troyes. 420, in virtue of which the latter rehand of the king's daughter Cath-1 the regency of France for the present ssurance of succeeding to the throne ing's death. In all these transactions unate prince had of course nothing to to sanction them by his presence or

Henry V. did not long enjoy his france or Henry V. did not long enjoy his f grandeur. He died Aug. 31, 1422. mself died shortly afterward, leaving rance in the hands of the English. LES VII. (THE VICTORIOUS), the 5th

king of the house of Valois, born in Paris, Feb. 22, 1408, died at the castle of Mehunsur-Yèvre, near Bourges, July 22, 1461. The 5th son of Charles VI. and Isabella, he became by the early death of his brothers heir apparent to the crown in 1416. In 1417 he was appointed lieutenant of the kingdom, and 2 years later he assumed the title of regent, without however being able, on ac-count of his indolent habits, to exert any authority; he was but a tool in the hands of his favorites, most of them leaders of the Armagnac faction. On the death of Henry V. and Charles VI. in 1422, Henry VI. of England was proclaimed king of France, at St. Denis, and his authority recognized by the majority of the people, while Charles was supported only by a few citizens of central and southern France. He was so poor and powerless that his enemies called him the roi de Bourges, as if this city were the whole of his monarchy. The duke of Bedford, who governed in the name of Henry VI., successfully waged war against Charles, and the English troops, victorious in several encounters, concentrated themselves around Orleans, which was the stronghold of the French king. His position was utterly helpless, when suddenly a young peasant girl, Joan of Arc, the celebrated "Maid of Orleans," came to his rescue. Her enthusiasm, patriotic devotion, and confidence in victory, inspired the French troops with new ardor, while terror spread among the English. Orleans was delivered, the enemy repeatedly defeated, and the king triumphantly brought to Rheims, where he received the holy unction. From this time, Charles was indeed the real king in the eyes of the whole people, who every where rose in his behalf. The war became a national one, in which the lower classes, who had until then remained nearly indifferent, took an active part. The capture and death of the heroine, far from damping the popular enthusiasm, kindled a new spirit. The French gained considerable advantages; and finally the treaty of Arras, concluded in 1485, between the king and Philip of Burgundy, insured their ultimate triumph. Henceforth Charles appeared to be a new man; he distinguished himself by wisdom, prudence, and bravery; he achieved the task which had been commenced by others, and partly deserved the glorious appellation which has been attached to his name. Peace was reestablished, order and tranquillity prevailed, and prosperity revived throughout the kingdom. A regular army was organised from kingdom. 1489 to 1448; the finance department, the administration of justice, and the other branches of the government were put on a better footing. In many of his reforms Charles was assisted by Jacques Cour, the richest and most enterpri ing merchant of the time, whom he had made minister of finance. The improved condition of the country secured the sympathies, and, on the renewal of hostilities, the assistance even of those provinces which were still held by the English. Consequently, in the space of a few



his associates, who attempted to resist her, and gave for a few years to France a degree of peace and prosperity, till her brother became of age. The chivalric romances and accounts of Charlemagne's heroic deeds had imbued his rather weak mind with the idea that it was his mission to restore the Roman empire, and to take Constantinople from the Turks. At the head of a powerful army he entered Italy in 1494, triumphantly marched through the pen-insula, and took possession of Naples. Satisfied with his military exploits, Charles left a part of his army in Naples, and hurried home with a select body of about 9,000 soldiers. When in the neighborhood of Parma, he met at Fornovo an army of 40,000 Italians, who sought to intercept his return; but in spite of their numbers the young king routed them and triumphantly reentered France. He soon learned that his army had been defeated by the Spaniards under Gonzalvo de Cordova, and that Naples had returned to its old allegiance. He was planning a new expedition when he suddenly expired from the effects of an apparently trifling acci-

CHARLES IX.. the 12th king of the family

denly it was reported that Adm been shot by a man commonly king's assessin. This was an but it was too late for the Primeasures for their security; the and defenceless. On the night Bartholomew's day (1872), at from the Louvre, the Catholics arms and mercilessly slaughts nents, who had confided in the vit is difficult to determine what Charles IX. in the fatal deed have acted under the permittion of the permitted as an order: "Well, all, that not a single Huguenot proach me with their death!" afterward manifested signs of dibreathed his last when only it amid dreadful corporal and spi

OHARLES X., the 7th and family of Bourbon, born at V 1757, died at Göritz, in Hlyria, I was the 4th son of the dauph XV.. and received at his hirt

scandalous conduct was, however, somewhat estricted by the influence of the dauphiness Marie Antoinette, and his love for Mme. de Po-On one occasion he rashly insulted his cousin, the duchess of Bourbon, at the opera bell; and his duel with the duke, which grew ent of this circumstance, seriously impaired the favor which his affable and courteous manners had gained for him. He tried to make amends by distinguishing himself at the siege of Gibraltar, but in vain; his levity and inconsistency had destroyed the last vestige of his popularity. When the revolution broke out, faithful to the traditions of his house, he became one of its most uncompromising enemies. But instead of apporting his unhappy brother, Louis XVI., he fled from Paris to Brussels, then to Turin, where he engaged in intrigues, the consequence of which was to increase the danger to which his brother was exposed. On May 20, 1791, he had an interview with the emperor Leopold at Mantua, and a few months later was present at the conference of Pilnitz, the only result of which was to give a new impetus to the revolutionary spirit in France. He continued to go about begging assistance for the royalist cause; meanwhile the king was arraigned before the convention, sentenced to death, and executed. The exiled prince, who now assumed the title of Monsieur, repaired to Russia, where Catharine II. presented him with a magnificently ornamented sword bearing this inscription:

*Donnée par Dieu pour le Roi." But this was a useless weapon in such weak hands. The illdirected efforts of the Bourbons and their allies having proved fruitless on the Rhine, it was thought proper to give encouragement and assistance to the Vendeans or Chouans. sieur was consequently sent, Aug. 1795, with English ships, to effect a landing on the coast of Although supported by a large number of emigrants and some 2,500 English troops, the brave Charette, who was in waiting for him, having gathered nearly 20,000 Vendeans, and engaged his word that 60,000 more would rise in arms on the arrival of a Bourbon, the prince did not dare to land, and his cowardice was the signal of the ultimate defeat of the monarchical erty in western France, the heroic peasants of Brittany and Vendée being tired of giving their lives for princes by whom they were deserted. From this period to 1814, Monsieur lived in obscurity, residing mainly in England. Or fall of Napoleon, he repaired to Paris. April 12, 1814, he was welcomed there by the provisional government, headed by Talleyrand. A part of the Parisian population hailed his return, while his affability of manners and kind words conciliated the good will of many. most popular saying reported of him at the time was: "Friends, nothing is changed in France; there is only one Frenchman more." Notwithstanding this favorable beginning, 11 months had hardly elapsed when Monsieur was again compelled to leave France, after having vainly tried to secure the city of Lyons against

the approach of Napoleon. The last defeat of the emperor at Waterloo brought him back again to France in the train of the European again to France in the train of the European armies. During the first years of the restora-tion, he kept aloof from public affairs. He was, however, the head of the ultra-royalist party, which so seriously interfered with the policy of Louis XVIII. That party at last prevailed by the accession of the Villèle cabinet, and the influence of Monsieur became prominent. He succeeded Louis XVIII., Sept. 16, 1824, under very favorable auspices, his brother not having been a favorite with the nation. At first he adopted some popular measures; but soon his government appeared to be ruled solely with a view to the reestablishment of the old regime. A bill to indemnify the emigrants for their losses during the revolution was introduced; this bill, by which the nation was to assume a thousand millions of new debts, in behalf of those who had actually borne arms against it, was adopted, March 27, 1825. This was a great triumph for the reactionary party. Soon another bill was passed, decreeing the most severe penalty against what was called sacrilege. In the legislative session of 1826, an attempt was made to alter the law of inheritance, so as to reestablish the right of primogeniture; this, however, failed. Another bill, to regulate or rather to destroy the freedom of the press, called loi do justice et d'amour, was not more successful. The public discontent was further increased by the favor shown by the government to the Jesuits who had reëstablished themselves in France, under the new appellation of perce de la foi. At last the popular sentiment broke out during a review of the national guards, held April 29, 1827, by the king himself; he was received by the cries of "Down with the ministers," "Down with Villèle." Greatly provoked by these manifestations, his haughty answer was that he "came to receive homage, not lessons." On the same night a decree of dissolution was issued against the national guards. A few weeks later, the chamber of deputies was also dissolved, while the royalist party was reenforced in the chamber of peers by the addition of 76 new members. At the same time, the freedom of the press was entirely suppressed by the ress-tablishment of the censorship. To divert public attention, the government resolved on assisting Greece in her war of independence but the glory achieved by French arms failed to restore popularity to the cabinet; and Charles X. at last consented to part with his ministers and choose new counsellors among the most liberal royalists. The Martignac min-istry, formed Jan. 4, 1828, was the signal of a kind of reconciliation between the king and the nation. The measures then adopted were hailed with delight by the friends of constitutional liberty, but created the utmost diseatisfac-tion among the court party. The king, fearing the ascendency of liberal principles and following the suggestions of the ultra royalists, dismissed the Martigues administration, and intrusted Prince Polignac with the formation of a new cabinet. The prince was indeed the truest representative of that old royalist party which had "forgotten and learned nothing." His mere name was considered as a challenge offered by the king to the nation; every one foresaw the coming struggle. In vain the government tried to assuage public opinion by the excitement of military success. The expedition against Algiers was undertaken; that stronghold of piracy was stormed on July 6, 1880. But all to no purpose; the interest of the whole nation was engrossed by home affairs. On the opening of the chambers, March 2, the king had made use of threatening language, and to this a majority of 221 deputies answered by voting an address declaring their want of confidence in the min-istry. The king declined to receive the address, on which the chambers were adjourned, and on May 16 they were dissolved. New elections took place, and resulted in a still more powerful opposition majority. Incensed at this, and encouraged by the triumph of the French army in Algeria, the king resorted to a coup d'état. Decrees were promulgated to suppress entirely the freedom of the press; to dissolve the newly elected, but not yet opened, chamber of deputies, and prescribe an essential modification in the mode of election, so as to secure the triumph of the court party. These ordinances fell like a thunderbolt on Paris. Resistance was immediately organized. Barricades were built, and defended by bodies of workmen from the suburbs, and by artisans and printers, under the command of officers and young men from the polytechnic school. The insurrection was emphatically popular, and not confined to any par-ticular class. The royal troops, under Mar-shal Marmont, offered but unwilling resistance, and were driven from the capital in less than 3 days. Charles X. was so little conscious of the danger of his situation that he remained quietly at the palace of St. Cloud; he learned but gradually the defeat of his troops, being to the last under the impression that he had to deal only with a riot. But it was a revolution, and when he attempted to avoid its consequences it was too late. He recalled the fatal ordinances, appointed a liberal ministry, and even abdicated in favor of his grandson, the duke of Bordeaux, the present count of Chambord, but all in vain; the chiefs of the revolution would not accept such proposals; the king had no alternative but to depart. He retired first to Trianon, then to Rambouillet, under the protection of his guards. In the latter place, he made some show of resistance; but on the appearance of 10,000 volunteers from Paris, he gave it up entirely, and, accompanied by commissioners sent by the chamber of deputies, he directed his course toward Cherbourg. There, on Aug. 16, he embarked for England with his family and a few faithful servants, on board of 2 American ships, the Great Britain and the Charles Carroll. He landed at Cowes as a private individual, under the name of comte de Ponthieu. He

immediately repaired to
in Scotland, which had be
a residence by the En
retreat he devoted
which he was still very and
his old age, and to re
years' residence, he left
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solved to retire to Goram an Inthere in Oct. 1836; but soon
era, after a sickness of 5 (s.

IIL (

CHARLES I., CHARL THE GREAT (Ger. Karl the West and king of F died Jan. 28, 814, and burn The 2d son of Pepin, the F verted to him and his bro father's demise in 768. later, Charles secured the w He now found himself ma Gaul and western Germany; his ever, was unsatisfied, and a nate wars in Italy, Spain, largely to his al His first conquest v tives of discontent and several years existed be rius, king of the Lombar accession to the throne, daughter of the latter, her back in a scornful Desiderius himself had the nephews and some of of Charles; at the same ti tile attitude toward the pop Pepin had made firm allie by bestowing upon them the venna. Charles, yielding to to the entreaties of Pope Au Alps in 778 at the head of besieged Pavia for 8 sion of it only when its a abled by pestilence and exiled to the monast Charles crowned hi crown of the L scarcely left Italy w rius, supported by two dukes. and Benevento, rose in arms queror. The rebels were and Charles, to make t dardy more sure, app to reign over this com war was actively prose this was the most imp terrific of all those v mencing in 772, it after a duration of 82 interruption. On his took Eresburg, destroye known as "Irminsul riously as far as the Wee were far from being conque entered their country

warriors, slaughtered all who offered resistmes, devastated the towns which were not apt enough in their submission, and now considered his power firmly established. Far from it; they rose the following year, and, not-Withstanding repeated defeats, renewed their resistance in 777, but in vain. Charles's power now seemed securely established. He held a placitum at Paderborn, where many Saxon tribes acknowledged his power and were baptized. Their intrepid chief, the hero who inspired them with his courage and love of independence, Wittikind, had been obliged to take refuge with a northern prince. Charles imved this interval of apparent tranquillity to his warriors against the new caliph of Cordova Abderrahman. Crossing the Pyrénées in 778, he took Pamplona, Saragossa, and the ter-Pitory as far as the Ebro; but a severe misfortime attended his return to France. Suard of his army, being overtaken in the nar-Tow passes of Roncesvalles by the Basques, the inveterate enemies of the Franks, was destroyed to the last man; and among the valiant chiefs who were slain was Roland, whom history scarcely notices, till his later renown in the annals of chivalry. But the presence of Charles was required on the Elbe; the indomitable Saxons had revolted again under Wittikind; they could not endure the foreign yoke, and, above all, they hated the attempts made to convert them to Christianity. Charles adopted against them measures of the greatest severity and cruelty; more than 4,000 prisoners were at one time slaughtered; many thousands of the Saxons were transplanted with their families into Frankish countries; part of Saxony was laid waste, and every means resorted to to crush the spirit of its unfortunate inhabitants. Two great battles, which took place at Detmold in 788, destroyed their last forces, and Wittikind, despairing of the future, surrendered in 785, swore allegiance to Charles at Attigny-sur-Seine, and was baptized. This, however, was far from being the last of these bloody struggles; the independence of Saxony found other champions, who more obscurely, but not less heroically, undertook their patriotic task. The alternate succession of risings and defeats went on almost uninterruptedly, until Saxony, being completely exhausted by repeated losses, and bent down under the despotic organization devised by Charles, had no recourse but to give up her national freedom and religion. The diffusion of the gospel was aided by conquest; the bishoprics or missionary stations of Minden, Halberstadt, Werden, Bremen, Münster, Hildesheim, Osnabrück, and Paderborn were the origin of as many cities; and the old Saxon nationality was completely broken down. While this desperate struggle was still at its height, Charles had to baffle the treacherous designs of Tassilo, the Agilolfingian duke of Bavaria, who, although a tributary of the Frankish king, held secret intercourse with his enemies, and attempted to unite the Saxons, the Lombards, the Saracens, the Avars, and the Slavonians

against Charles. The duke was arrested, arraigned as a traitor before an assembly of lords at Ingelheim in 787, and sentence of death passed upon him, which, however, was commuted by Charles to imprisonment in the monastery of Jumièges, near Rouen. Bavaria was now divided into counties under Frankish governors. Charles afterward conquered several of the Slavic tribes along the banks of the Baltic, undertook a war of extermination against the Avars, which lasted from 794 to 799, and put their country under the administration of Frankish counts and bishops. Charles, having thus taken possession of the north-east of Spain, the larger part of Italy, and northern and eastern Germany, found himself at the beginning of the 9th century master of an empire bounded N. by the Baltic sea, the Eyder, the German ocean, and the British channel; W. by the Atlantic ocean; S. by the Ebro, the Mediterranean, and the Volturno; E. by the Save, the Theiss, and the Oder. Margraviates, or military marches, were established for the protection of the land frontiers, while fleets were in readiness on the sea-shore to oppose the piratical invasions of the Saracens and the Northmen. So extensive a dominion seemed fully to warrant a higher appellation than that of king; and moreover, the ultimate aim of Charles's conquests had been the restoration of the western Roman empire. Having been induced to visit Italy to protect Leo III. against his rebellious clergy, the Frankish king was solemnly and triumphantly crowned by the grateful pontiff in St. Peter's church, on the Christmas day of the 800th year of the Christian era. Henceforth he styled himself emperor of the West, and with a view of reestablishing the ancient Roman empire, he proposed to marry Irene, the Byzantine empress; a project baffled by the deposition of Irene. This was a great era in the middle ages; the Christian kings of Spain, the Mussulmans of Fez, and the caliph of Bagdad, Haroun al Rashid, sent ambassadors to present homages and gifts to the powerful western monarch.—However great as a warrior and the founder of an empire, Charle deserves still more praise as a lawgiver, a civilizer, and a patron of learning, science, and art. He endeavored to establish order and a regular administration among the many nations which his sword had united, most of which were in a barbarous condition, totally different in their origin, language, and manners, and hostile to each other. Great national assemblies, known as champs de Mai, were held yearly in the spring. (See CHAMP DE MARS.) Other assemblies took place in the autumn, but were merely councils of military and ecclemantical lords whose advice the emperor was pleased to receive, and who, under his directions, prepared the bills and projects to be submitted to the national meeting. In addition to the laws thus adopted by the nation, Charles issued edicts known as capitularies, in which regulations for the administration of the empire as well as the management of the emperor's private property were enacted. The collection of these capitularies, a number of which have been preserved, is among the most valuable relics of the middle ages, and affords striking evidence of rare foresight, wisdom, and prudence in their His empire forming, ethnologically, various kingdoms, Charles placed at their head his own sons with the title of kings, but they were nothing more than his lieutenants, the supreme power being concentrated in his own hands, he alone appointing the officers intrusted with the administration. His whole dominion was divided into a number of counties governed by earls (Grafen), and these were placed under the supervision of imperial delegates, or missi dominici, who 4 times every year visited the circuits assigned to them, holding provincial meetings and courts of justice, receiving the accounts of the collectors of public money, and adjusting the grievances of the people. Charles was thus enabled to control every branch of administration, as well as the proceedings of the various functionaries, who were appointed for a term of 8 years only. His protection extended to the clergy, increasing their wealth by a law upon tithes, their liber ty by his respect for canonical elections, and their power by certain judicial prerogatives; but at the same time keeping them under his dominion, submitting them to the missi dominici, restricting their rights of asylum, interfering with questions of discipline and even of dogma, and causing the monasteries to be reformed by Benedict of Aniane. Trade and industry were not less objects of his fostering care; he granted privileges to merchants, and reduced as much as possible the tolls to which they were subjected. He established uniformity of currency, had the coinage executed in his palace, and regulated the value of gold and silver coin. Beggars were not permitted to prowl about the country, but were provided for by the lords or communities to which they belonged. Charles bestowed particular attention upon general instruction and the revival of classical learning. trious men were invited to his court from all parts of the world, and especially from Italy, to diffuse among his subjects various branches or learning, as grammar, rhetoric, logic, arithmetic, astronomy, history, theology, and medicine. The Anglo-Saxon Alcuin, a native of York, a man of considerable information, if not thorough learning, seems to have been the leading spirit of this aggregation of teachers; he was the originator of the Palatine school, a kind of normal institution, from which men, thoroughly instructed, were sent into the provinces, and constituting at the same time an academical society, which consisted of the emperor himself, several members of his family, mostly females, and the most distinguished of his The academicians assumed names borrowed from antiquity; Charles himself was styled David, while 2 of his daughters, Gisèle and Rothruda, were called Delia and Columba.

These ladies and some of in making copies of ancieus task, however, specially devumonks of vario D(couragement to u such copies, and e υli palace at Aix la Cuupelre. Lum in his desire of knowle and wo versing with the le dur hours, and having bo his meals. During the 1 quently get up to study the warse of Through such diligent application be much of a scholar as was consistent with lie duties; and some literary works v his encouragement, such as a German and a collection of the national so Germany. The fine arts were neglected by him; he had the G adopted in the churches, and br. from Italy, whose concerts he p Among the many palaces constructed order, we must mention those of Ing Nimeguen, and Aix la Chapelle. The latter was a masterpiece of architecture, having l ornamented with columns and sculptural fr ments brought from Italy; it was a sand magnificent building, the specious and rooms of which were decorated in a specious. did manner, and filled with most elegant costly furniture. The basilica in the same corrected also by Charles, was equally celebrate and became the pattern of many church built during the 9th century. He more encouraged civil engineering; a wooden b 500 paces long, was constructed at Man over the Rhine; and a gigantic canal was es menced, but not completed, to establish thre this river and the Danube a water commun tion between the German ocean and the Black sea. As a man, Charles, according to Ego hard, was of a tall and commanding a either standing or sitting, he had an ar d grandeur and dignity; and notwithstanding the shortness of his neck and his obesity, he was well proportioned and remarkably active, wi a firm step and manly appearance, his s voice alone being not in accordance with is person. A perfect adept in the use of warpen, he was also an unrivalled swimmer and a c summate hunter. Although encouraging a nificence of attire among his courtiers, he use generally plainly dressed, giving preference the old Frankish style of costume. He was fru and temperate, and evinced great are against drunkards. He had 9 more or less timate wives, by whom he had at least 90 c The only son who survived him was hi successor, Louis le Débonnaire. Several at his many daughters led a dissolute life and c ed great scandal, which their father and a ward their brother were unable to suppress. awe with which Charles inspired his o raries increased as time rolled on; his historic deeds, amplified and adorned by poetry, po fully seized upon the popular ima

the great emperor and his 12 legendary peers secame the heroes of innumerable chivalric nces, which were recited or sung every re, and the collection of which is now ed the "Carlovingian Cycle." His name also won a halo of sanctity, the anti-pope al III. having canonized him in 1165, and s XI. having ordered his anniversary to be rated on Jan. 28. The origin of many or learned institutions has been ascribed mm; and fiction and truth are so much led in his history that it is difficult to diss the one from the other. But, howor tuis may be, Charlemagne takes his rank ng those extraordinary men who, from time ...me, appear to change the face of the world . inaugurate a new era in the destinies of ind.—The literary works attributed to semagne are: 1, his "Capitularies" (first consisted by Ansegise, abbot of St. Wandrille, best edition that of Étienne Baluze, Paris, 1677, S vols. folio); 2, "Letters" contained in the collection of De Bouquet; 3, a "Grammar," of which fragments are to be found in the Polygraphia of Trithemius; 4, his "Testament," contained in Bouchel's Bibliothèque du droit François, tom. iii., printed at Paris, 1667, folio; 5, some Latin poems, such as the "Epitaph of Pope Adrian," and the "Song of Roland;" 6, the Caroline books.—The cathedral of Aix la Chapelle stands on the site where Charlemagne had erected a chapel, which he designed as his barial-place. The chapel was destroyed by the Normans, and rebuilt in its present form by Otho III. toward the close of the 10th century. The position of the tomb, in which once reposed the remains of Charlemagne, is marked by a slab of marble under the centre of the dome, inscribed with the words Carolo Magno. When the vault was opened, the body of Charlemagne was found seated on his throne, clothed in the imperial robes. These relics are now deposited in Vienna, excepting the throne, which alone remains in the cathedral of Aix la Chapelle. Among the books which treat of Charlemagne we may refer to the great biography of his contemporary, Eginhard, Vita Caroli Magni, in Duchesne's Rerum Francorum Scriptores (the best edition is that by Pertz, in the Monumenta Germania Historica, 2 vols., also by Ideler, Hamburg, 1839, 2 vols.; an excellent German translation appeared in Berlin in 1850); Monachas Sagallensis, De Gestis Caroli Magni, libri ii.; Donatus Acciaiolus, De Vita Caroli Magni Commentariis ; Leclero de la Bruère, Histoire du règne de Charlemagne; B. Hauréau, Charlemagne et sa cour; Struve's Rerum Germani-carum Scriptores, tom. i.; Dippold's Leben Kaiser Karl's des Grossen (Tübingen, 1810); Gaillard's Histoire de Charlemagne (2d edition, Paris, 1819, 4 vols.); Lorenz, Karl's des Grossen Privat- und Hofleben, in Raumer's Historisches Taschenbuch (1832); Capefigue's Charlemagne (2 vols. Paris, 1840); Sporschil's Karl der Grosse (Darmstadt, 1845). Dr. F. Piper has resently edited from the original MS. Karl des

Grossen Kalendarium und Ostertafel (Berlin, 1858). Among the more popular works upon this monarch may be mentioned the "History of Charlemagne," by G. P. R. James (1882).

CHARLES THE FAT, or le Groe, the last emperor of the Carlovingian dynasty, born about 882, died in 888. He was the 8d son of Louis the Germanic, and received the kingdom of Swabia for his portion of his father's possessions. After the death of his oldest brother, Carloman of Bavaria, he succeeded him in the imperial dignity and in the possession of Italy (881), and after that of his younger brother, Louis of Saxony (Jan. 20, 882), he became king of all Germany. On the death of Carloman of France in 884, Charles the Fat united France under his sceptre with Germany and Italy, and the vast empire of Charlemagne was thus again vested in one and the same sovereign. He proved, however, utterly unworthy of this exalted posi-tion. "Charles the Fat upon the throne of Charles the Great," says a German historian, "was a caricature of weakness and contempt; this master of nations, harassed, humilisted by every foreign and internal enemy, a passive tool in the hand of his minister, an inactive spectator of the sufferings of his people, was covered with domestic as well as public disgrace." His incapacity and cowardice The city of Paris soon became manifest. being besieged by the Northmen, he marched against them with a large army from Germany; but instead of fighting the enemy, he offered them large sums of money and the pillage of Burgundy to obtain their retreat. This shameful conduct raised general indignation; the Bavarians, Saxons, Thuringians, and finally the Alemanni, deserted him and deposed him solemnly in an assembly at Trebur in 887. He had already been disowned by the French. He died the next year, poor and forsaken, in a cloister near Constance. He was noted for his inordinate love of the pleasures of the table, and this as well as his natural corpulency gave him the surname of "the Fat."

OHARLES IV., emperor of Germany, the son of John, king of Bohemia, who fell in the last battle of Orécy, born in Prague, May 18, 1816, died Nov. 29, 1878. Several years before the death of Louis of Bavaria, the emperor being under excommunication of the pope, the king of Bohemia had been chosen in his stead. But Louis, partly by the great superiority of his talents, partly by the great superiority of his talents, partly by the superport given to 'him by the princes of the empire, who were especially jealous of the papal power, and had within 10 years adopted at the diet of Remse the most energetic measures against the claims of the holy see, easily conquered the blind Bohemian, who threw himself thenceforth almost entirely into the hands of the family of Luxemburg, and so allied to the royal house of France; and consequently he caused his son, who was a man of some considerable ability, though of a cold, politie,

fawning, and treacherous disposition, to be educated in that kingdom, and to be brought up as much as possible a Frenchman. So far as his interests led him in that direction, Charles of Luxemburg, as he was called, was willing to be German, French, or for that matter, English. Nevertheless, he had not the slightest idea of sacrificing his own life or that of his people in behalf of a king who would never adequately reward his services. Therefore, so soon as he saw that the English archery had in fact won the day, and that the English king was pressing the broken troops of France so hard as showed that there would be no second battle, by which to redeem a victory already lost, Charles of Luxemburg took himself off the field, and left his gallant father and a handful of brave countrymen to die, the former because he would not outlive his honor, the latter because they would not survive their king. By this event, Charles succeeded to the throne of Bohemia, and having been chosen emperor by 5 electors (July 19, 1846), hoped to succeed without opposition, when Louis died, a little more than a year afterward. The electors of Brandenburg and the Palatinate, the archbishop of Mentz, and the duke of Saxe-Lauenburg, assembled at Lahnstein, declared the choice which had fallen upon Charles IV. void, and proceeded to elect in his place Edward III. of England, the conqueror of Crecy, and brother-in-law of the late emperor. But the English parliament obliged him to decline the proffered dignity. Equally fruitless was their election of Frederic the Severe, landgrave of Meissen, who likewise refused the crown. Twice disappointed, they now elected Gunther von Schwarzburg, a knight distinguished by his feats of arms, in whose favor they gained over the Poles, those ancient enemies of the house of Luxemburg; and for a time the prospects of Charles seemed to be at the lowest. He set himself, however, to accomplish by underhand intrigue the same ends in secret which the failure of the Hohenstauffen, of his grandfather Henry, and of Louis of Bavaria, clearly proved to him the impossibility of effecting by open violence. He was the first of the emperors who introduced that foreign policy against which his predecessors on the throne had so manfully but unsuccessfully striven. The Hapsburgs had made some weak attempts of a similar nature, but it was not until this reign that modern policy took deep root in Germany. He empoisoned German policy with every hypocritical art, by the practice of courtly treachery and secret murder, in which he had become an adept in France. Primogeniture, first introduced by him into his family, passed into that of the Hapsburgs, and at all events promoted the dismemberment of the empire, whose external power was thereby increased, notwithstanding the moral paralysis of its effect. He craftily entered at this juncture into negotiation with Edward, to whom he proved the necessity of an alliance between them against France; drew

the Hapsburg army on his side bedaughter Catharine in marriage to son of Albert the Lame: dissolved the Wittelsbac ding Anna, the daughter of the Rupert, by ceding Brandenbe Elder, and declaring Waldem himself invested with the postor. Louis the Elder, with sacrificed Gunther, who was ah in 1847, poisoned by one of the Those who surrou Charles. of Gunther in his last mou him an abdication, for which the ficently paid by Charles. He a at the head of the house of Lun dissolved the alliance betwe France, and prevailed upon the Avignon, and to cast himself ag protection of the German with regard to Italy did not ext ing it to the empire, but only to ceremony of his coronation s ing also in this, he visited Bo capacity; took no heed of the Its except to foment discords between trayed Rienzi, who trusted hi in his power, and sent him is pope; flattered Petrarch, who i Dante had previously implored E restore Italy to the empire, with words; and, in a word, by his cos gusted the Ghibellines, who I means to strengthen their per fire to the house which he and he narrowly escaped with Rome he was received with th tinction by the papal legate after the coronation (1866) w city, in obedience to secret or the pope, in order to avoid ed temporal sovereign. Ten policy was completely reward in detaching Pope Urbe Clement, from the French alli later, again, when that prelate re he was visited by Charles, wi Viterbo, and to whom he voi of conducting him to St. Pet horse he rode by the bridle as he side. Next he applied hime tion of the empire, by getting the and constitution of the electoral the power of himself and of th perors de facto; and this measure accomplished by the the celebrated golden bull at a remberg in 1856, which continu damental law of Germany until th of the empire. This was achievement of his reign. This was the corruptions and fouds which and encouraged broke out on all a out the empire; the league of the war with the nobles; the country w by bands of robbers, and all se



but it was not his policy, base and as that had been, which created the ces, but the general ferment of the mind of the people, which was here, but especially in Germany, to seethe and boil with new ideas cal and ecclesiastical reform, and ould not be settled until after many a urbulence, commotion, and war. By nacy he raised not only the power of family but that of the empire, and eeded by intrigue and cunning where enstauffen with all their valor and nity had failed. His domestic and policy was, it must be admitted, eral, and beneficial. He bestowed s of laws, in the main just and adas, on Bohemia, Moravia, and Silesia. erred privileges on the aristocracy he cities, encouraged agriculture and promoted internal navigation, introman artificers into Bohemia, converted of that country into a smiling garden, the capital with fine public edifices ly buildings, patronized learning and rts, founded universities, and generally the progress of education and the g of his people. Altogether, he was anomaly. As a man, and especially as in, he must be pronounced odious; yet he is not without claims to consideraven to respect. "Charles," says Mene account of his reign is singularly discriminating, "was named-falsely, I more for the empire than any emse the Hohenstauffen—the stepfather ipire, but the father of Bohemia. His iscovered his Bohemian descent, his ace to his mother being stronger than her. He was diminutive in stature, -set, carried his head ill and drooping had high cheek bones and coal-black s Slavic appearance curiously conith his sumptuous attire, for he seldom the imperial crown and mantle, and h manners and education. He spoke ges, and was deeply versed in all the of his time. Part of his biography y himself is still extant. He also drew lan for the new part of the cities of ad Breslau." He bequeathed the king-Bohemia and Silesia to his eldest son, us; to Sigismund, the 2d, the electorandenburg; and to the 8d, Lusatia.
10 works referring to Charles IV. may med Pelzel's Geschichte Kaiser Karl's rue, 1780-'82), and Donnige's Geschichte chen Kaiserthums im 14 Jahrhundert .841).

LES V., emperor of Germany, and Spain under the title of Charles I., shent, Feb. 24, 1500, died at the mof Yuste, near Plasencia in Estremain, Sept. 21, 1558. He was son of Burgundy, archduke of Austria, and he daughter of Ferdinand and Isabella

of Spain. His father was son of the emperor Maximilian, and the beautiful Mary, daughter of Charles the Bold and Isabella of Bourbon. By the death of his father Philip, he became in 1506, when only 6 years old, heir presumptive to the entire possessions of the house of Hapsburg in Germany, in right of his paternal grandfather, Maximilian, and to the splendid sovereignty, or dukedom, as it was called, of Burgundy, afterward the Spanish Netherlands, in right of his paternal grandmother, Mary. By the death of Ferdinand the Catholic, his maternal grand-father, in 1516, he inherited the kingdom of Spain, now one and undivided, the kingdom of Naples, and all the boundless empire of Spain in America, beyond the western ocean. It was his boast that the sun never set on his dominions; he bore 2 globes on his escutcheon, and on his coin 2 pillars, those of Hercules, the boundaries of the old world, with the motto Phus ultra, or "more beyond." He was, on his arrival at the age of manhood, the mightiest, the wealthiest, in every respect the most powerful prince in the world. In extent of territories, in number and quality of populations, whence to draw unlimited supplies of the best soldiers in Europe, in revenues, and treasures of gold and silver, in maritime resources and abilities, no one could so much as aspire to compete with him. He was educated in the Netherlands, under the care of William Croy, lord of Chièvres, who had him thoroughly instructed in military exercises, in history, and in those business habits which are essential to the conduct of affairs of state; he brought him up stern, cold, regular in his life, grave, formal, and dignified in his manners; but he made him solely and entirely a German, and this was a disadvantage to him in his after life, as he never gained the sympathies of his Spanish subjects. From the moment of his accession to the throne of Spain, Charles had set his ambition on the imperial crown, which had been so long the property of his grand-father Maximilian, but he had at the same time the ability to perceive, that to pretend to the succession at this time would be to array against himself the jealousy of all the other potentates of Europe, and the prudence to avoid a premature disclosure of his object. His motto was nondum (not yet), but he nevertheless awaited his time only, and made the surer of his object by his seeming neglect of it. In the mean time, Martin Luther had shaken the church to its base. On the death of Maximilian, Frederic of Saxony, the friend and protector of the bold reformer, became regent of the empire. the imperial election came on, Francis I. of France, who was the most dangerous competitor of Charles, was rejected on the ground of his not being a German, though it was believed at the time that his partisans were induced by golden arguments to desert his cause. Henry VIII. had, it appears, for a short time, entertained a hope of attaining the imperial dignity; but so soon as he was assured that he was too late in the field, he directed the whole weight of his influence to be thrown into the scale in favor of the Spanish monarch. Charles was eventually elected emperor, June 28, 1519, and taking leave of his Spanish subjects, whom he disliked, and with whom he was not popular, proceeded to Worms, where a great diet was convoked of all the estates and princes of the empire, to receive the emperor, regulate the affairs of the empire, and decide the Lutheran controversy. last was really the great and determining question of the day. But Charles lacked the foresight to discover its paramount importance. In view of the pretensions of his rival Francis, and his military preparations against Italy, it appeared to the emperor to be of all things the most essential to preserve the unity of the German empire, free from dissension. The efforts of Charles were necessarily directed by the course of events to the repression of the attempts of Francis I. against Italy; and he had need of all his power and ability to effect that end, and to prevent or frustrate the constant and formidable coalitions which were made against him, so often as he appeared to be gaining any decisive advantage over his impetuous and impulsive rival. Thus, after the tremendous battle of Pavia, in which, by the consummate generalship of Charles of Bourbon, the arms of the empire triumphed over those of France, while Francis himself was made prisoner on the field, he was reduced to the necessity of making peace and releasing his captive on conditions, to the observance of which the latter swore on the Gospels previous to his liberation, but which, so soon as he was free, he repudiated, by the union of the pope, the king of England, the French, the Venetians, and all the Italian princes. A second time, when the French again invaded Italy and were again defeated, near Pavia, the emperor again consented to a peace, which is known as the "ladies' peace," having been negotiated by the mother of Francis and the aunt of Charles, Margaret, the princess regent of the Nether-lands. Shortly after this reconciliation, the war of the peasants and the nobility being suppressed, and the moderate councils and doctrines of Luther continuing to prevail, the Catholic princes entered into a closer league of interest with the emperor at the diet of Spire, and endeavored to prevent the further progress of the new doctrines by a decree that the church should remain in statu quo until the convocation of a council. This step led to the celebrated protest of the Lutheran princes, whence the name of Protestants, April 19, 1529. The necessity of concentrating his forces against the Turks, who were besieging Vienna and had laid waste all the country as far as Ratisbon, added to the admitted impossibility of crushing the Lutheran party, except by open recourse to arms, led Charles, in accordance with the views of the pope, to limit his efforts to the promotion of dissensions among the princes. But on the retreat of the Turks, the subject was again taken up at Augsburg, when a religious war appeared inevit-

able, until a new in cent, who thought to pri Germany, and place he the western, as he alree the eastern empire, prod of strife. Scarce had by a temporary and unce internal dissensions and menced. Zwingli was killeu his party suffered a total (braced the doctrines of (motions followed, the contowns after the diss ion ol den, Denmark, and ... to the persecution Netherlands, and w ultimate suppression in Munster. of Trent, the death of Luther, and sulting from the confederation of princes, followed in quick suc France being humbled in new a certain degree gained over, pacified by the cession of part or pope and the emperor turned tl aided by the new Spanish order on the suppression of the heresy. All ineffectual. The warfare was con Protestant side chiefly by Albert von Culmbach, At length, a furious battle a tween Maurice and Albert, the l under the ban of the empire. depredator, opposed to all I in arms, brought the a while, by means of a resq ded at Augsburg in 1555, false peace of Augsburg.-termined to fulfil his long cl abdicating his numerous crov succession to his son Philip, to we also have resigned the empire h ish education of that pr bigoted character, is an aversion as uncorque he regarded them. At m in a splendid assembly a ceremonial, he sur and authority in the and in the succeeding cording to the chief the crowns of Spain, with all th pending on them, both in new world, was accomm ner. He retired soon monastery of Yuste, it. the remaining years of Diocletian had there be an imperial abdication, and religious solitude 64 favorite theme of roman fascinating but fanciful been imitated by authors prior to the recent discovery letters of the emperor a these it is proved that, in profound and pious .

ever more intently occupied with the course **Contemporary affairs**; that instead of attainng to generosity of sentiment or loftiness of bought, he increased only in severity and inbelerance, and bitterly regretted that he should have allowed the escape of Luther; and that **Instead** of triumphing over an appetite which had always been ungovernable, he shocked his physician by the immense supplies of partridges, apons, sirups, pies, sausages, omelettes, and Sagons of wine, which were constantly ordered for his table. Politics and gastronomy were the subjects of almost every letter which proceeded from the imperial hermitage. he had a passion for horology, there is no evidence, according to Mr. Prescott, that he ever made the philosophical reflection concerning the absurdity of attempting to produce uniformity of faith among men, since he could not make any two of his timepieces agree. He suffered severely from the gout, and, among other eccentricities, is said to have had his own funeral obsequies performed in the chapel of the monastery a short time before he was attacked by the malignant fever which caused his death. Menzel has summed up his character in the following sentences, which may be deemed impartial, although perhaps not enough allowance is made for honest religious scruples, from which it is hardly just to assume that Charles was wholly free, and for natural predilections in favor of the faith in which he had been brought up: "Charles, although dexterous in the conduct of petty intrigues, was entirely de-void of depth of intellect, and even misunderstood his age; magnanimous in some few instances, he was unendowed with the greatness of character that had empowered Charlemagne to govern and to guide his times. Possessed of far greater power than that magnificent emperor, the half of the globe his by inheritance, he might, during the 80 years of his reign, have moulded the great reformation to his will; notwithstanding which, he left at his death both the church and the state in far more wretched disorder than at his accession to the throne of Germany. Frederic II. was too dull of intellect to rule a world; Charles V. was too cunning. He overlooked great natural advantages, and buried himself in petty intrigue. Luther remarked of him, during his youth: 'He will never succeed, for he has openly rejected truth, and Germany will be implicated in his want of success.' Time proved the truth of this opinion. The insufficiency of the reformation was mainly due to this emperor. Ferdinand I., opposed in his hereditary provinces by a predominating Protestant party, which he was compelled to tolerate, was politically over-balanced by his nephew Philip II. in Spain and Italy, where Catholicism flourished. The and Italy, where Catholicism flourished. preponderance of the Spanish over the Austrian branch of the house of Hapsburg exercised the most pernicious influence on the whole of Germany, by securing to the Catholics a support which rendered reconciliation impossible; to

the Spaniards and Italians, admittance into Germany; and by falsifying the German lan-guage, dress, and manners. The religious dis-putes and petty egotism of several estates of the empire had utterly stifled every sentiment of patriotism, and not a dissentient voice was raised against the will of Charles V., which bestowed the Netherlands, one of the finest provinces of Germany, upon Spain, the division and consequent weakening of the powerful house of Hapsburg being regarded by the princes with delight." By his wife Isabella, daughter of King Emanuel of Portugal, he had one son, the future Philip II. of Spain, and 2 daughters. He was succeeded as emperor by his brother Ferdinand I.—Among the works treating specially of Charles V. the most important are Antonio de Vera's Vida y hechos de Carlos V.; Prudencio de Sandoval's Historia de la vida y hechoe del emperador Carlos V.; Robertson's "History of the Reign of the Emperor Charles V." (London, 1769; German translation by Mit-V." (London, 1769; German translation by Mittelstedt with comments by Beiner, Brunswick, 1795); Lanz's Correspondens des Kaisers Karl V. (Leipsic, 1844-'46); and Charles's instructions to his son Philip II., translated into Franch by Teissier (the Hague, 1700). The MS. of a description of the capture of Tunis, in the handwriting of Charles, dated Tunis, July 28, 1585, and addressed by him to his sister Mary, regent of the Netherlands, has been discovered by M. Gachard, keeper of the Belgian archives. For the life of Charles V. after his retirement, the the life of Charles V. after his retirement, the best original authorities are MSS. in the archives of Simancas. Upon these are chiefly founded the Gonzalez MS.; the Chronique de Charles Quint, by Pichot, Paris, 1854; the Retraits of mort de Charles Quint, by Gachard; Mignet's Charles Quint, &c.; Stirling's "Cloister Life of the Emperor Charles V.," and Prescott's appendix to the Boston edition of Robertson's history of the reign (Boston, 1856). CHARLES VI., 2d son of the emperor Leo-

CHARLES VI., 2d son of the emperor Leopold I. of Germany, and Margaretta Theress of Spain, born Oct. 1, 1685, died Oct. 20, 1740. He was educated from his childhood with a view to the Spanish throne, to which, on the death of Charles II., the last Spanish king of the house of Hapsburg, he was entitled. But Charles II., dying without heirs male, in defiance of the Austrian right, left his throne by will to Philip, duke of Anjou, second grandson of Louis XIV. of France; and on the death of the Spanish monarch, in 1700, Philip took possession of the kingdom. A war ensued, in which most European powers took part, and which is known as that of the Spanish succession. In 1708 Charles was proclaimed king of Spain, in Vienna, under the name of Charles III. With the assistance of England and Holland he eventually, June 26, 1706, was proclaimed king also in Madrid, but obstinately declined being crowned, because he had not the regal outfit which he thought requisite to support his dignity. This proved fatal to Charles. The French having had time to receive resnotessents, and

obtain an abler general, in the person of the duke of Berwick, natural son of James II., and nephew on his mother's side of the great English captain, defeated the allies in the battle of Almanwhich recovered for Philip the whole of Valencia, and ultimately restored to him the crown, which he had once lost had his enemy taken the occasion to assume it. In 1708 and 1709, the war languished in Spain, Charles being shut up in Barcelona, which was gallantly defended by a small garrison of 2,000 men, until it was relieved by an English fleet; but the great successes of the allies in the Netherlands inclined the French, exhausted by continual reverses, to sue for peace. Spain would have been abandoned, even, had not the German cabinets insisted on the expulsion of Philip by the arms of his own uncle, Louis XIV. In consequence of this, the war continued. In 1710, the allies in Spain being reenforced, the Germans and the English gained a signal victory at Saragossa; Philip was again driven from Madrid, and Charles, when it was too late, entered it, amid the mournful and ominous silence of the people, who had been taught to regard him as the tool of the English heretics, and were excited against him by the influence of the pope, the clergy, and the Jesuita. France sent powerful reenforcements, and her best general, Vendôme, and the English commander Stanhope suffering himself to be surprised and made prisoner at Brihuega, Charles was once more shut up in Barcelona, to which thence-forth his kingdom was limited. Joseph I., emperor of Germany, dying without issue in 1711, Charles, at the suggestion of Eugene, was elected emperor, and recalled to Germany, where he was crowned at Frankfort-on-the-Main in December of the same year, and one year later king of Hungary, at Presburg. His wife, Elizabeth of Wolfenbuttel, and Count Stahrenberg, remained two years longer in Barcelona, in a fruitless attempt to retain the kingdom; but they were forced to withdraw, and Catalonia fell a prey to a cruel vengeance. In England the tories came into power, who had always sided with France, on account of the support it gave the Stuarts, whom they still hoped to see restored. Mariborough was replaced by Ormond, who was secretly ordered to retreat, abandoning the Dutch under Albemarle to defeat, and obliging Eugene to retire from his position at Quesnoy. This was followed by the peace of Utrecht, concluded in 1713, between France and England, by which England retained Gibraltar, Minorca, and St. Christo-pher's, obtained the demolition of the fortress of Dunkirk, and the right of free trade with the Spanish colonies, in consequence of which she guaranteed to Philip the possession of the throne of Spain. Holland shortly afterward acceded to the peace. The German empire, though abandoned by England and Holland, could still have compelled France to listen to reason, had it been possible for her various governments to act in concert. Eugene was forced

to negotiate with Villars; but so the French in their dema left Rastadt, where the conf on his own responsibility, as yielded, fearful that persis even Germany from her stuper. Utrecht was recognized. Philip re England Gibraltar. Charles the Spanish possessions in Italy, Ka Sardinia, the Netherlands, and the Kehl, Freiburg, and Brei west of the Rhine which had for to France, for which that power re dau in exchange. In the follow dinia was given by Austria to the voy, in exchange for Sicily, and th the title of king of Sardinia. being the last heir male of the l burg, gave his whole attention to inheritance of all the crowns which his daughter' Maria Theress of Au hand he had given to Francis of L end which he hoped to attain by wh in history as the pragmatic cancti or guarantee, procured at imme nations. Spain's consent was p cession of Tuscany, Parma, and Pi was conciliated by the promise England and Holland by the al commercial society of Ostend; and A Saxony and Poland, by the as cession of the crown of Poland to I gustus III. The latter assura volved Europe in a fresh war, of Augustus II., the Poles proc reelection, for which Stanislas Le offered himself as a candidate, a was not much favored by the nol Charles held steadily to his engage ertion of his influence, united to the vention of Anne of Courland, the ter the Great, who had governe 1780, and who had already most peror and to Prussia the sch tion of Poland, secured the crow tus. Anne sent Marshal Münnich, of 40,000 Russians, into Pole Maurice the Strong (Marshal Sam land, of which he had been and conferred that dignity or Biron, whom she had eleval lowest position, he being in son of an ostler. Stanislas was from his dominion, and in con Spain, and Sardinia declared, Augustus or on Russia, but or evidently with no object but ting that power. The Russian men to assist the emperor; E land remained neutral; a owing to the death of his ab the marshal duke of Berwick, we maintain himself on the Rhin else, however, the imperialis losses. Villars gained a great vie ma, in which Mercy, the imperi

thin; and although his successor Königsegg sursed the allied camp on the Secchia, capturing The anieu camp on the sampaign went against the empire, while Don Carlos of Spain succoded in making himself master of the king-com of Naples. These successes were not, however, turned to the advantage of France to extent that might have been expected. Louis XV., steeped in licentious dissipation, erred little for conquest or glory, so long as he could enjoy undisturbed the pleasures of his hrem, and a truce was concluded, by which the former stipulations of the emperor were acexpted. Don Carlos retained Naples; Parma and Tuscany were given to Lorraine, the sovsignty of which was bestowed on Stanislas Leszczynski, 1736, with the reversion to France on his death, which occurred in 1760, when Lorraine became French. During the remainder of his reign, the emperor was constantly engaged in wars with the Turks, from whom he vainly fancied he should be enabled to make conquests, which might counterbalance his losses in the west of Europe. But on the death of Prince Eugene, the army which he had created fell into a state of total demoralization. The house of Hapsburg became extinct in the direct line by the death of Charles, which hap-pened while he was busily employed in reorgan-izing the financial system of his empire, which was in a terribly distracted condition, and in arranging the last details of the pragmatic sanction by procuring the election of his son-in-law, the duke of Tuscany, husband of the beautiful and high-spirited Maria Theresa, as king of the Ro-After his death, the pragmatic sanction immediately dissolved itself, as by common consent of all parties, not one of the contract-ing powers abiding by the guarantees which Charles had purchased at so dear a rate; and it was only by the courage and abilities of his daughter that the hereditary possessions of the house of Hapsburg were preserved and transmitted without dismemberment.

CHARLES VII. (KARL ALBRECHT), emperor of Germany, born in Brussels, Aug. 6, 1697, died in Munich, Jan. 20, 1745. His father was Maximilian Emanuel, elector of Bavaria, and governor of the Spanish Netherlands. Joseph L, having taken possession of the elector's possessions in Bavaria, outlawed him, and detained his son as prisoner at Klagenfurth and Göritz, where the young prince, however, enjoyed every advantage of education. Liberated in 1714, after the conclusion of the treaty of peace of Rastadt, Charles Albert was sent as commander of the troops against Turkey in 1716-'18. In 1722 he married a daughter of Joseph I., having previously renounced all rights arising from this marriage to the empire of Austria, and adhered to the pragmatic sanction. Four years afterward he succeeded his father as elector of Bavaria. His first act now was to protest against the pragmatic sanction, and after the death of Charles VI. in 1740, he put forth his claims to the Austrian succession, which had already been urged by his father, immediately on the accession of Maria Therees. In order to insure his claims, he concluded at Nymphenburg an alliance with France and Spain, May 18, 1741. With the assistance of French troops he captured Lintz, where he was proclaimed archduke of Austria, and afterward took possession of Prague. Elected king of Bohemia, and soon afterward German emperor, he proceeded to Frankfort-on-the-Main, where, Feb. 21, 1742, he was crowned emperor of Germany by his brother, the elector of Cologne. The Hungarians, however, rose in favor of Maria Theresa, whose army occupied Munich, reconquered upper Austria and Bohemia, and compelled Charles to resort to flight. The efforts of his general, Seck-endorf, enabled him to return to Munich, April 19, 1748; but in June he was again expelled by the victories of Maria Theresa's troops. About the same time his allies, the French, were defeated near Dettingen by the English allies of the Austrian empress, and Charles would never have regained possession of his capital but for his alliance with Frederic of Prussia (May 22, 1744), who invaded Bohemia, and for the exploits of Seckendorf. But prostrated by adversity, he died soon after his reentrance into Munich. He was a weak man, wholly incapable of the part which he aspired to play.

IV. NAPLES.

CHARLES D'ANJOU, king of Naples and Sicily, count of Anjou and Provence, born about 1220, died in 1285. He was the youngest brother of Louis IX. of France, and married Beatrix, the heiress of Provence, thus becoming related to Henry III. of England and Richard of Cornwall, the king elect of Germany, who had married the 2 eldest sisters of Beatrix. He accompanied his brother in his first crusade, landing with him in Egypt in 1249, and being taken with him a prisoner by the Saracens. On his liberation he came back to Provence, where he had first to reestablish his authority in some of the large cities. He greatly assisted his mother, Blanche of Castile, in her regency during the king's absence in Palestine. On the death of the emperor Con-rad IV, the kingdom of the Two Sicilies was offered to him by Pope Urban IV., in defiance of the rights of the Hohenstauffen. Crowned at Rome, he marched against Manfred, the natural brother of Conrad IV., who had been proclaimed king by the Sicilians. At Grandella, near Benevento, he won a great battle in 1268. Here his rival was slain, and he assumed at once over the reluctant Italians a power which he maintained by unmitigated severity. The numerous adherents of the Hohenstauffen, aware of the popular feeling, invited young Conradia, son of Conrad, to Italy. This brave prince, then scarcely 16 years old, entered his hereditary states, where he was enthusiastically received. Every thing seemed to promise him victory; his army was numerous and full of confidence; but the crafty Charles, with forces comparatively small, succeeded in defeating his young oppo-

return to Turin, and

nent in 1268, at the battle of Tagliacozzo, and making him his prisoner. He subsequently had him executed on the principal square of Naples, after going through the mockery of a trial. friends and adherents of the prince were also unmercifully dealt with, and the unpopularity of the conqueror was still further increased by the insolence of his French soldiery. In 1270 Charles sailed for Tunis, to join his brother Louis IX. in his 2d crusade. On his arrival he found Louis dead; he succeeded, however, in compelling the bey of Tunis to acknowledge himself his tributary. On his return he planned the conquest of the eastern empire, but his schemes were baffled by the insurrection commonly called the "Sicilian vespers." This dreadful event, which had been brought about by Charles's tyranny, took place March 30, 1282. Sicily placed itself under the protection of Don Pedro of Aragon, and Charles tried in vain to reconquer the island. He was overpowered by the superior cunning of Pedro and the prowess of the admiral Roger dell' Oria. During this hard contest, it was proposed that a duel should take place at Bordeaux between the 2 princes, a proposal eagerly accepted by Charles, although he was already 60 years old; but the offer was only made by Pedro to gain time, and the Aragonese did not appear on the appointed day. Charles repaired in haste to Italy, hoping to take revenge on the battle-field; but on arriving at Gaëta, he learned that his son had been defeated and taken prisoner in a naval engagement with the Aragonese admiral. This misfortune preyed heavily upon his mind; the inflexible warrior now became as wavering as he had been resolute. His death soon followed. He was succeeded by his son, Charles II., called the Lame, who began to reign in 1289, after his liberation from prison. also tried in vain to reconquer Sicily. He died in 1809.

V. SARDINIA.

CHARLES ALBERT (CARLO ALBERTO AMADRO), king of Sardinia, born Oct. 2, 1798, died at Oporto, July 28, 1849. The son of Charles Emanuel of Savoy-Carignan, of a younger branch of the royal family, and having consequently no hope of ever obtaining the crown except by the extinction of the direct line, he early adopted liberal principles, and was even affiliated with the carbonari. Being appointed regent, March 18, 1821, on the abdication of King Victor Emanuel, he did not hesitate to proclaim in Sardinia the constitution adopted by the cortes of Spain and to appoint a provisional junta; but his plans were immediately baffled by the marching of an Austrian army into Piedmont, and the rejection by King Charles Felix of all his measures. He then withdrew from Turin, resigned his office, and left the kingdom. In 1823, he served as a volunteer in the French army which, under the duke of Angoulême, invaded Spain, to crush the liberal party; he was consequently charged with perfidy by his old friends. In 1824, he was allowed to

the post of viceroy of On the death of Charl elder branch, 1 succeeded to t which, however 1 realizing the antifreedom. So system was a to agricultu criminal laws were army received an elle which greatly increased measures were mingletion to national liberty. king was as undecided as cession of Pope Pius IX. to return heartily to his f a constitution to Serdinis amnestied the exiles of 1 liberty to the pr revolution of 18 champion of It aided with l and the ducates of Pa dena, saying boldly help him in the se ("Italy will he cessfully at first, c trengo, April 80, 1 June 11; and sto chiera; but ill w he was in his .urn wu 25, by Marshal Rade Vicenza, Treviso, and I retreat to and from risk of being taken, istice, through which me vantages. On the ex resumed hostilities; | Chrzanowski, was o vara, March 23, 1844, a had placed in him were resigned the crown to his Emanuel II., and retired to died 4 months later. I back to Turin, where a in his honor. CHARLES EMANUEL L Great, duke of Savoy, born at the voli, Jan. 12, 1562, died at Savilles He succeeded his father, Philil surnamed Ironhead, in 1580. Hi terprising spirit, instigated by unscrupulous ambition, soon the wars of his time, and he suc into alliances with Spain, France peror of Germany, which he has soon as it suited his interest

possessed of remarkable take

scientific accomplishments, a himself by his courage in me 1585 he married Catharine.

Philip II. of Spain. This con

pretensions to the throne of France death of Henry III., made him t

r IV., who had still to conquer his country. red in war with Henry for the marquisate luzzo, and with the Swiss cantons of ra and Bern, he was compelled by a de-& St. Joire (Oct. 1589) to an unprofiteace, but soon recommenced hostilities in with the Catholic league, penetrated rovence, occupied Barcelonette, Antibes, 'réjus, and entered Aix as victor (Nov. This was but the commencement of a var, which was carried on with varied sucand after a series of victories and defeats erminated by the peace of Lyons (1601), gave Saluzzo to Charles Emanuel in exe for some small frontier districts ceded ince. He then made a sudden attack on 7a, but the enterprise failed; many of his rs were killed, others hanged as robbers. 1 of the growing influence of Spain in he entered into alliance with France and e; but after the assassination of Henry 1610), France concluded peace with Spain, loning the duke of Savoy. He then t the alliance of the house of Hapsburg, fter the extinction of the ducal line of 1a, laid claims to Montferrat (1612). the death of the emperor Matthias (1619), came a candidate for the crown of Ger-, but was beaten by Ferdinand II. Resthis ambition (which also led him into les of conquest in Cyprus and Macedon), acked Genoa (1624), and finally brought himself the enmity of all his former allies. French occupied Pignerol, threatened Broken , and finally conquered Savoy. ese disasters, the old Charles Emanuel suddenly. He was a zealous patron of nd sciences, but plunged his country into ities by his ambitious wars. He was sucd by Amadeus I.

VI. SPAIN.

ARLES IV., king of Spain, born in Naples, 12, 1748, died in Rome, Jan. 19, 1819. The 'Charles III., he succeeded to the throne in having married at an early age his cousin, Luisa of Parma, by whom he was entirely When Manuel Godoy, a handsome olled. in the body guards, became her lover, ontrived to make him the friend of her .nd; and she succeeded so well, that they together on the most intimate terms, the ite of the queen becoming also the favorthe king. He was always ready to conw favors upon Godoy; raised him very ly to the rank of a lieutenant-general, and wed upon him the title of duke of Alcund the office of minister of foreign affairs. dications arose with the French republic,

to the efforts of Charles to save the life, cousin, Louis XVI., whose execution he ted by declaring war against France. rmy, however, was soon worsted, and he appy to conclude in 1795 a treaty of peace isel. This treaty was signed by Godoy, then assumed the title of "Prince of the

Peace." In consequence of this alliance with France, Charles became involved in a war with Portugal and England. The hostilities against the former country did not last long, nor were they severe; but in the contest with the latter, the Spanish navy received a deadly blow, in 1805, at the battle of Trafalgar, while Spain lost, at the same time, its richest colonies in America. Napoleon, who found a pliant tool in Godoy, finally resolved on deposing Charles IV., who also had an enemy in his own son Ferdinand. The young prince, whose bad qualities were still unknown to the nation, gained universal favor by his opposition to Godoy and the French rule, and used his influence to annoy his father. Charles, disgusted with his son's conduct, and tired of the French domination, resolved to retire to Spanish America; but on the very day he intended leaving his royal residence at Aranjuez, March 18, 1808, he was residence at Aranjuez, march 16, 1606, he was stopped by a tumult of the populace instigated by Ferdinand. The rage of the people was now directed against the queen and Godoy. In or-der to save Godoy's life, Charles abdicated in favor of Ferdinand, but a few days later sought to withdraw the abdication. Napoleon put an end to the feud between father and son by deposing them both. Charles and Ferdinand were taken to Bayonne, where Napoleon was to pronounce between them as an umpire. soon as the emperor got them in his power, he obliged Ferdinand to restore the crown to his father, who was in his turn persuaded to relinquish it to Napoleon. This episode was the turning point of the all-powerful emperor's fortune. As for Charles, he received in exchange for his crown the castle of Compiègne, surrounded by a forest abounding in game, with a yearly pension of 6,000,000 francs. Notwithstanding the al-lurements of Compiègne, Charles went to Marseilles. In 1811 he was permitted to repair to Rome, always in company with his wife and Godoy, who, strange to say, became every day dearer to him. After the fall of Napoleon, Ferdinand having given dissatisfaction to the Spaniards, a proposition was made to Charles to renew his claims to the crown; but he refused, his only desire being to spend his latter years in retirement in the company of his wife and of her paramour. The former having died in Dec. 1818, grief preyed so much upon his mind that he died within a month afterward.

VIL SWEDEN.

CHARLES XII., king of Sweden, born in Stockholm, June 17, 1683, killed at the siege of the fortress of Frederickshald, Norway, Nov. 80, 1718. He was the eldest son of Charles XI. (born Nov. 24, 1655, died April 15, 1697), a peaceful and wise prince, who improved the internal condition of his kingdom, opened the succession to females, and left the crown, with a full treasury, to his son. Charles was well educated by his father, learning French, and speaking fluently in Latin and German, beside his native tongue; he was more than an



having obtained by the treaty of the Hague the aid of England and Holland, assumed the initiative with great energy. In May, 1700, he embarked at Carlscrona for the island of Zealand, designing to attack Copenhagen with a fleet of 80 ships of the line, beside transports, assisted by a Dutch and English squadron. In his first engagement Charles gave evidence of the impetuous and daring courage for which he was afterward distinguished; for, on nearing the place of disembarkation, he leaped into the sea, and was the first man on the enemy's soil. Copenhagen was bombarded by the fleets, and would have been invested and closely besieged, when further operations were terminated by negotiations, which had for their result the signing of a separate peace at Travendahl (Aug. 8, 1700), Frederic IV. of Denmark deserting the coalition, and resigning Schleswig-Holstein to the house of Gottorp. In the mean time, a Polish army had overrun Swedish Livonia, and laid siege to Riga, while Peter of Russia besieged Narva, at the head of semi-barbarous hordes, who were only driven to the assault by the terror of the knout. The sword which Charles now drew was never again to be

a hollow way, where he must ally retreat, he merely bows a word, turned his horse's her by the way he had come. brought against him under t Riese, whose effeminacy rene ject of scorn to the gallant P for Charles was everywhere Clissow, July 20, 1702, he victory, which would have h not Charles been detained by Cracow, which delayed the ca that although he was closely by the Swedes under Rehm tinually escaped, and afterwar owing to the invasion of Fin sians, which required the wi Charles until 1705. Charles in petty struggles with Polan lowing the young and growing north to recuperate itself at he might have crushed the em in the end crushed himself. ever, his thoughts seem to fixed on placing another king Poland, young Sobieski havis ck upon Russia, and Charles, dashing rapross Silesia into Saxony, was there re-with an enthusiasm of zealous joy, second) that which had formerly welcomed the of Protestantism, Gustavus Adolphus. old step so terrified Augustus that he is 2 principal councillors from Poland, ull powers to treat with Charles; but the treaty had actually been signed, haven compelled during the progress of ne-ons, which were secretly carried on, to his Russian ally at Kalisz, where Peter ctorious, he was so much elated, that he ed the report that peace had been con-. between himself and Charles false in particular. The declaration did nothing, er, to eject that prince from Saxony, of he kept absolute possession, and in Augustus was held in utter contempt testation in consequence of his tyranny, but ore of his apostasy from the Protestant t. The Saxon was soon compelled to his pretensions, and to meet Charles in ence at Altranstadt, where peace was deely concluded. By it Augustus resigned ims to the throne of Poland, and had the to surrender to the conqueror the per-f young Sobieski and the unhappy Patkul, t whom the vengeance of Charles was ilarly excited. He had already put to General Patkul, who was in the Saxon s, and had defended Warsaw against his as being born a Livonian, and therefore dish subject; and he now committed a rhich is the deepest blot on his escutcheon, wing himself to be carried away by his for his Livonian quasi subject, and g Patkul to die the agonizing death inonly on the lowest and most degraded otors, of being broken on the wheel. after the signing of the peace the events residence of Charles in Saxony are very kable, as he fixed his headquarters at stadt, and acted in all respects as if he the sovereign of the country, recruiting mies from its subjects, and compelling hat place by threat of arms the emperor stria, who had dispossessed his Pro-t subjects of 125 churches, which had given up to the Jesuits, to restore those had been confiscated, and to permit the on of 6 new ones. The emperor was at me hard beset by his enemies. At this re, had Sweden joined the coalition against mpire, it would have been in peril of uin; and, in order to avert this calamity, orough was sent to visit the Swedish con-The courtly talents of the handsome olished Englishman were not exerted in Charles was persuaded to withhold his om the coalition, and to turn the weight arms and military genius against Russia. pt. 1707, the Swedish monarch invaded ountry at the head of 48,000, marching aly the very route in which Napoleon followth above 12 times the number of troops, a little more than a century later, and shared almost identically the same fate, and in as nearly as possible the same manner, except that the line of his operations having been diverted to the southward, it was into the Turkish territory, not into his own country, that he effected his escape. He crossed the Beresina at Borissov, stormed the Russian lines at Holowczyn, wading the river Wabis, in which he sunk up to the neck, at the head of his forlorn hope, and was at one time surrounded by the Calmucks, many of whom he slew with his own hand. Thence he pursued the enemy with such inconsiderate haste and rashness, that he lost himself and his army smid the forests and morasses of those dreary solitudes. His artillery was lost in the swamps, his men died of hunger, while he was yet advancing; yet he still pressed resolutely onward, the enemy wasting the country before him, according to the invariable practice of the people. Gen. Lewenhaupt, who was attempting to join him with reenforcements from Sweden, was waylaid and defeated, after a des-perate conflict which lasted during 8 entire days, by the czar in person, at Liesna, notwithstanding which he succeeded in joining his master at the head of 6,000 men. Up to this time it had been the plan of Charles to strike direct at Moscow; but when he reached Smolensk he was persuaded by Mazeppa, the hetman of the Cossacks, to turn his line of march toward the Ukraine, where the hordes were not as yet reconciled to the Russian yoke, and where they had promised to aid him. But Peter laid waste the country, constantly retreating before him and refusing to deliver battle, and Mazeppa, who was proscribed, failed to aid him until he forced his way, with fearful loss of life from cold, hunger, and fatigue, in the depth of the winter 1708-'9, as far as to Gadatch upon the Dnieper in lat. 52°, where he retired into winter quarters with the intention of attacking Pultowa, a strong town on the river Vorakla, with an abundance of all provisions and supplies of which his army was in want, in the commencement of spring. Before that time arrived however, his forces were so fearfully reduced that Peter, who, since his defeat at Narva, had completely reorganized his army, resolved to fight, and appeared at the head of 70,000 men, at the moment when his invader was about to invest the city. It so happened that while reconnoitring the advance of the enemy Charles was dangerously wounded in the thigh, and was obliged to limit his exertions, on the day of battle, July 8, 1709, to issuing his commands from a litter instead of directing their manœuvres himself, and charging in person at their head. It is said that there were, moreover, disagreements between Rehnskold and Lewenhaupt, and that the Swedes, who were presminently a manœuvring army, did not display their usual superiority in tactics on this occasion. advantages, however, without counting this, were in favor of the enemy: vast superiority of numbers, better equipment, perfect condition

of men and animals, a superb artillery, above all a single leader, and he their czar. There was reason enough why the Russian should win the day, and he did so completely. Charles escaped, with extreme difficulty, with a handful of followers, into Turkish territory, old Mazeppa adhering faithfully to his fallen fortunes. The last salvo was fired by Prince Maximilian Emanuel of Wartemberg, who commanded a Swedish regiment. He was taken prisoner and treated with extreme distinction by the czar. The Swedish division of Lewenhaupt was overtaken and compelled to surrender on the Dnieper, and Charles, escaping to Bender on the Dniester, a strong fortress which was then in Turkish territory, where he was hospitably received and allowed to fix his residence by the Ottoman Porte, employed the whole power and energy of his mind to bring about a war between Turkey and Russia. This he succeeded in doing, and the grand vizier, taking the field at the head of 200,000 men, shut Peter up in the Crimea, and his affairs seemed utterly ruined; when his mistress, for she had not yet become his wife, Martha, afterward Catharine I. of Russia, bribed the grand vizier with all her jewels to allow the Russians to escape. That day was decisive of the fall of Charles and of the rise of Russia. Charles, who had been greatly aggrieved that to him had not been assigned the chief command of the Turkish army, galloped impa-tiently into the camp, but too late to prevent the escape of the czar. Frustrated as he was and severely mortified, the king of Sweden still continued year after year, until 1713, to linger at Bender, incessantly employed in endeavoring to awaken the Turkish government to a consciousness of the danger of allowing the Russians to consolidate their rising power, and constantly hoping that he had succeeded, but ever hoping in vain. He effected the over-throw, by the intrigues of the agents whom he employed at Constantinople, of 4 successive grand viziers, and felt justified in his long delay by the reasonable hopes he entertained of placing himself at the head of a powerful Turkish army. In the mean time Livonia and Esthonia fell a prey to Russia, immediately after the calamity of Pultowa. Riga surrendered. Courland became the property of Peter, who caused its duke to marry his niece Anne Petrovna, and then designedly and deliberately drank him to death. Pomerania was next invaded. The Saxons seized the whole of Poland on the flight of Stanislas, who, deserted by all his adherents, joined Charles in Turkey; the allied forces of Saxony and Russia made themselves masters of all Swedish Pomerania, with the exception of Stralsund and Wismar; and after the war had been carried on with the most atrocious cruelty, Stade, Altona, Garz, and Wolgart being burned to the ground in the dead of winter, and nearly all their inhabitants perish-ing of hunger, cold, and misery, Prussia was induced to join the anti-Swedish league by the promise of the future possession of Stettin. But, about this time, strange events took a in Turkey, which nearly altered the whole state of affairs in Europe. The Russian agents having at length persuaded the Ottoman Persuaded the residence of Charles at Bender was dangerous to their safety, as he was plotti they said, to attack Turkey from Polsad shoe he succeed in establishing Stanisles on the throne, he received intimation that he m leave Bender; and on his positively refusion do so, orders were issued to the serable that place to bring him, dead or alive, Adrianople. Still with characteristic stinacy refusing to submit, he barricaded his house, and with the 200 or 800 men who conposed his personal retinue, defended it ag several thousand Turks with artillery, tatil t roof taking fire, he was forced to sally out, kiling many Turks with his own hand, when he spurs at length becoming entangled, he fell mi was mastered and made prisoner (Feb. 1, 1713), with his eyebrows and eyelashes burnt of his face, and his clothes covered with block. Thence he was removed to Demotiks, sear Adrianople, where, obstinate as ever, he remained 10 months in bed, feigning sickness. until, becoming satisfied that he could expect to obtain nothing from the Porte, he sent off a parting embassy to Constantinople, is order to conceal his intentions, and then taking horse, in disguise, by night, travelled day set night through Hungary, Austria, Bevaria, te Palatinate, Westphalia, and Mecklenburg, in order to avoid the Saxons and Prussians, set passing through Cassel incognite, although 2d sister, Ulrica Elenora, had recently be married to Frederic, hereditary prince of Hamarical Strategical reached Stralsund during a dark November night (Nov. 22, 1714). The moment it was known that Charles was in the city, it was invested by a combined army of Danes, Same Russians, and Prussians. It was defended be Charles with extraordinary skill and talest is nearly a year; but being desperate of receiving aid from without, he was forced to abandon it Dec. 15, 1715, when he retired to Land in Scania, where he set himself to defend his coasts. For the remainder of his reign the war was carried on for the most part by sea, generally to the prejudice of the Swed though not without Charles at times make dangerous efforts against Norway. At time his principal friend and adviser was Be Gortz, the minister of Holstein, who under the cause of Charles with extraordinary es and ability, and had all but succeeded in b ing up the anti-Swedish league, which had been joined by George I. of England. It was the policy of Gortz to gain over Peter the Great by any concession which might be needfal, by his aid or connivance to conquer Norway, at thence, with the preconcerted aid of a Jacobi rising, to land in Scotland, and dethrone Georg I. in favor of the pretender. A treaty had b agreed upon, by which Peter should reta conquests on the gulf of Finland, St

should be replaced on the throne of Poland, and Charles should be married to Anne Petrovna, the widow of the duke of Courland. Accident dissolved the whole scheme. A Swedish despatch fell into the hands of the Danes. Denmark dreaded the union of Russia and Sweden; Saxony saw that she should lose Poland; Hanover, that her projects upon Bremen and Verden, Russia that hers on Stettin would fail. Frederic of Hesse would no longer be heir to the crown of Sweden; while the power of Charles, by so great a marriage, would swell to a height dangerous to the aspirations of the Swedish A small Swedish force under aristocracy. Armfeldt had perished from cold while crossing the mountains which separate Norway from Sweden, and another, commanded by Charles in person, was besieging the fortress of Frederickshald, in the south of Norway, when the king was shot through the head. His death was supposed to have been predetermined by conspirators, but the hand which did the deed was never discovered. In his pocket were found a miniature of Gustavus Adolphus and a prayer book. His tomb is in the chapel opposite to that where the remains of Gustavus Adolphus are interred, in the royal mausoleum in the Ridderholms church in Stockholm. The walls are decorated with trophies of his various battles, including a standard taken with his own hands in Poland. The hat, clothes, and sword worn by him at the time of his death are preserved in the chapel. Ulrica Elenora and her husband Frederic of Hesse succeeded him on the throne of Sweden. Gortz, for his endeavors to preserve the integrity of the kingdom, was sentenced to the block. Sweden was as fatally dismembered, in order to secure the succession of a false heir to her crown, as she could have been by the utmost spite of her enemies. She has never again risen above the condition of a second rate power.—Charles was distinguished for love of justice, for intrepidity, firmness, temperance, and austerity of life. But his firmness frequently degenerated into obstinacy, his temperance into eccentricity, and his austerity into excessive severity. He was tall and of noble appearance, had a fine open forehead, large blue eyes, flaxen hair, fair complexion, a handsome nose, a pleasant smile, but little beard. Among the works which refer to his life may be mentioned that written by his chaplain Norberg, entitled Konung Carls XII. historia; Adlerfeld's Histoire militaire de Charles XII.; Lundblad's Konung Carls XII. historia (Stockholm, 1830; German translation, Hamburg, 1835-'40); and Voltaire's celebrated Histoire de Charles XII.

CHARLES XIII., born Oct. 7, 1748, died Feb. 5, 1818. He was the 2d son of King Adolphus Frederic and Louisa Ulrica, sister of Frederic the Great of Prussia. Destined from his birth to fill the high office of lord high admiral of Sweden, he received a naval education, and made several cruises in his youth. In 1765 he became president of the society of

sciences at Upsal, and in 1770 commenced the tour of Europe. On the death of his father, and the accession of his brother, Gustavus III. to the throne of Sweden, he was recalled home, where he played a very important part in the revolution of 1772, by which the power of the kingdom was vested in the person of the king, with the consent of the estates. This was effected mainly by the establishment of the order of Vasa, and by the organization of clubs and committees among the young officers of the army and navy in the confidence of the king. It was agreed that the brothers of the king should superintend and commence the movement in the country, while the king him-self should attend to the management of the affair in the capital. The revolution broke out by the pretended siege of Christianstadt, Aug. 12, 1772, by Prince Charles, in which no one was injured, and the whole business was so admirably managed, that without the spilling of a single drop of blood the country was delivered from the factious tyranny of the nobles, and the king honorably restored to the authority of his ancestors. Shortly after these events, Prince Charles was created duke of Sudermannland, and appointed governor-general of Stock-holm; but in the war which shortly afterward broke out against Russia, which persisted in fomenting dissensions in Sweden, he returned to his old profession, assumed the command of the Swedish fleets, and defeated the Russians in a great naval engagement in the gulf of Finland; in reward for which distinguished service he was raised to the governorship. On the murder of his brother, Gustavus III., he was appointed regent in 1792; in which situation, at a highly critical period, he preserved the kingdom for his nephew, Gustavus IV., in its constitutional form, kept it externally and internally at peace, and united for the protection of navi tion in the northern seas with his neighbors the Danes. In 1796 he resigned his power to his nephew Gustavus, who, having attained his majority, ascended the throne in that year, under the title of Gustavus Adolphus IV. After his nephew's accession, Prince Charles retired into private life, passing his time in literary and scientific pursuits, and appeared no more in public affairs until his nephew having more in public analys until in hopew having become a religious fanatic, and that of a most mischievous description, a revolution breke out in 1809, by which he was deposed and his uncle placed at the head of affairs, first as administrator of the realm, and afterward (June 20, 1809) as king of Sweden; in which title he reigned well, moderately, and wisely. His reign was cast in stormy times, during the splendid awater and headlong fall of Napeleon; but he conducted the affairs of state with such consummate ability and prudence, that while almost every other European kin dom was in some degree a sufferer by the ille of the long protracted warfare. Sweden not only had no losses to mourn, either on the field-or in the doings of cabinets, but actually received Norway at the restoration of peace as a compensation for her loss of Finland. Charles XIII. had married, so long ago as 1774, Hedwig Elizabeth Charlotte, princess of Holstein-Gottorp, but having no heir by her, he had adopted Prince Christian of Holstein-Sonderburg-Augustenburg as his successor; and on his dying prematurely, chose Marshal Bernadotte to succeed him.

CHARLES XIV. JOHN. See BERNADOTTE. CHARLES, archduke and generalissimo of Austria, duke of Teschen, 3d son of the emperor Leopold II., younger brother of Francis I., and uncle of Ferdinand I., emperors of Austria, born Sept. 5, 1771, in Florence, then the residence of his father as grand duke of Tuscany, died April 30, 1847. Of weak constitution and sickly, he seemed to promise little, but was soon attracted by military subjects, and be-came fond of geometry and other serious studies. He was 20 years of age at the time of the first war of the emperor, his brother, against France (1792). Under Hohenlohe he took part in the battle of Jemmapes against Dumouriez, and then commanded the van of the prince of Coburg, when he distinguished himself in the engagements of Aldenhoven and Neerwinden, in which the French were defeated. Belgium having been reconquered, he was appointed its governor-general, March 25, 1793. In 1794 he had a part of the Austrian command, in the battles of Landrecy, Tournay, Courtray, and Fleurus, against the victorious army of Piche-When the Netherlands were lost, he retired for some time to Vienna to restore his impaired health. In 1796 he took the field again as field-marshal of the empire, and commander-in-chief of the Austrian army on the Rhine, and his victorics over Jourdan, at Neumarkt, Teining, and Amberg, soon compelled Moreau, who had advanced as far as Munich, to undertake his famous retreat; the French were driven over the Rhine, and only maintained in their possession the bridges of Huningen and Kehl. Both these positions Charles attacked and took in the following winter. But while things were going on successfully in Germany under his command, the French, under Bonaparte, were everywhere victorious in Italy, and were rapidly advancing toward the heart of Austria; and when Charles was sent there to check their progress, the victorious young general, imitating the words of Casar, could say:
"Hitherto I have had to combat armies without a commander; now I have to combat a commander without an army." Charles was compelled to conclude the preliminary treaty of Leoben, April 18, 1797, which was soon followed by the peace of Campo Formio. Having lived for some time in Bohemia, as governor of that kingdom, he was again called to arms after the violent breaking off of the congress of Rastadt (1799), and again defeated the French under Jourdan, who had crossed the Rhine, in the battles of Ostrach and Stockach. Dissensions between him and the commanders of the

allied Russian troops checked his succ operations, and after the deteat of Kornskof i Masseina at Zürich, he had again to guard the Rhine. Bad health compelled him in March 1800, to resign his command to Kray, and to retire to Bohemia. He was not yet re when he had to hasten again to the def the empire of his brother, which, by the s able marches of Napoleon over the Ale of Moreau through Germany, was been the brink of ruin. The armistice of concluded by him with the latter was th liminary of the peace of Luneville (1801). great services were now recognized by appointment as president of the axis con of war at Vienna, as well as by a premade at the diet of the German em ward him with a statue, and the title of miour of Germany; which honors, however, he refused to accept. In 1805 he commanded the Austrian army in Italy against Mas victory at Caldiero (Oct. 80) was of little and as Napoleon, after the surrender of Uh rapidly advancing toward Vienna. The b retreat of the archduke Ferdinand to Bob and the battle of Austerlitz, compelled Pract to the peace of Presburg (Dec. 25). Cher was now made generalissimo of all the Austri armies, and minister of war, with wall power, which he used for the reorgania the forces of the empire, and the creation of a In 1808, after the strong reserve and militia. abdication of Charles IV, king of Spain, the provinces of Catalonia and Aragon called to the throug of Spain and India, and on Es frigate was sent to carry him from Triest was sent back with his thanks. In the ward 1809 he commanded in Bavaria, while his brothers John and Ferdinand led the arr Italy and Poland; he advanced as far as Ratio bon, but Napoleon's victories at Thema (April 19), Abensberg (20), Landshut (21), Ech (22), and Ratisbon (23), compelled him to retreat. Having, however, received new rele ments, he defeated Napoleon, who has Vienna, in the battle of Aspern and Easis 21, 22), thus shaking the belief in the inv ity of the modern Cæsar. This victory be little more than glory; the great battle of ram (July 5, 6) decided against Charles, the commenced victoriously by the Anstri retreated in the best order and con fighting to Znaym. An armistice, and soon after the peace of Schonbrusa end to the bloody campaign. wounded, and feeling at the same time peally mortified, he laid down his military mand, July 80, resigning all his office tired to Teschen, whence he afterward we Vienna. After the return of Napoleon f Elba, he again served for a short time as ernor of Mentz; but this was the last act of puolic life. He married in 1815 Heari princess of Nassau-Weilburg, and bec father of a numerous and prosperous among whom he lived in quiet red

ing the honors and distinctions due to his merits as a military commander, and a reputation for modesty, frankness, and plishments. His 2 works, "Principles of 7, illustrated by the History of the Cam-of 1796 in Germany" (8 vols. Vienna, and "History of the Campaign of 1799 rmany and Switzerland" (2 vols. Vienna, , are highly esteemed in military litera-Of his sons, the eldest, Albert, born is military and civil governor of Hungary; es Ferdinand, born 1818, and William, 1827, are lieutenant field-marshals of Aus-Frederic, who distinguished himself in naval expedition to Syria (1840), died at 20, 1846. His daughter Theresa, born was married (1887) to Ferdinand II., of Naples; her sister, Maria Carolina, 1825, to the archduke Rainer Ferdinand. IARLES, JACQUES ALEXANDRE CESAR, & sh physicist, born at Beaugency, Nov. 12, died in Paris, April 7, 1828. He was reable for his skill in public experiments and nstrations, and his lecture-room, in which pularized the electrical discovery of Frankas attended by one of the most brilliant iblies of Paris. Montgolfier having sent balloon filled with rarified air, Charles diately constructed the first balloon ever capable of holding hydrogen gas, with an aeronaut successfully ascended, Aug. 33. Charles afterward made an aërostatio re himself, rising to the height of 7,000 ft. vented the megascope and other ingenious il instruments, was a member of the acad-of sciences and librarian of the institute, and one of the most beautiful cabinets in

IARLES AUGUSTUS, grand duke of Weimar-Eisenach, son of the duke Ernest stus Constantine and Anne Amalia, prinof Brunswick, born Sept. 8, 1757, died 14, 1828. Having lost his father in the first of his life, he was educated with the greatest together with his posthumous brother, eric Ferdinand Constantine, under the reof his young mother, who, in the first year the death of her husband, was herself still the guardianship of her father. Upon the mendation of Frederic the Great she aped as their governor the count of Gortz, vard Prussian minister, giving them as ers Seidler and Herrmann, Wieland and el, while Schmid conducted the affairs of ttle state through the difficulties of the 7 ' war. In Dec. 1774, Charles Augustus her with his brother entered upon a jouro France and Switzerland, during which ade the acquaintance of Goethe, who behis friend, and afterward his minister. ng been declared reigning duke by his er on his 18th birthday, he married Louisa, ess of Hesse-Darmstadt, and continued the al and reformatory government of his er, gathering around him at Weimar a circle tinguished men, among whom were Goethe,

Herder, Wieland, Schiller, Voigt, and Musius. In 1786 he took service in the Prussian army, was in the campaigns of 1792-'98, on the Rhine, as volunteer, was made Prussian lieutenant-general in 1797, and remained in service till after the battle of Jens (1806), when he retired to his dukedom and soon joined the Rhenish confederacy. His soldiers now fought for Napoleon (who came over from Erfurt to see him, together with the emperor Alexander) in Tyrol, Spain, and Russia. Having gone over to the coalition in 1818, he entered the Russian service in the following year, and led an army of Saxons, Hessians, and Russians into the Netherlands: He then went to Paris, London, and Vienna, and took part in the campaign of 1815. The congress of Vienna rewarded him by enlarging his state, and erecting it into a grand duchy, as well as with the compensation of 800,000 thalers. He was the first of the German princes to introduce the promised constitutional representation (1816), and allowed freedom to the press, until he was induced to adopt restrictive measures by the complications that followed the great gathering at the Wartburg in 1817. He died of apoplexy at Graditz, near Torgau, on his return from Berlin. Several scientific and agricultural institutions, a park and botanical garden, are among the improvements with which he adorned his country. He

was succeeded by his son, Charles Frederic.
CHARLES CITY, a S. E. county of Va.,
bounded on the S. by James river, and on the N. and E. by the Chickahominy; area 184 sq. m.; pop. in 1850, 5,200, of whom 2,764 were slaves. t was one of the 8 original shires into which Virginia was divided in 1634. Presidents Harrison and Tyler were both born within the rison and Tyler were both born within the limits of this county. In 1850 the productions amounted to 178,940 bushels of Indian corn, 81,229 of wheat 2,461 of potatoes, and 5,144 pounds of wool. There were 6 corn and 6 saw mills, 1 tannery, 18 churches, and 92 pupils attending public schools. Value of real estate in 1850, \$861,579; in 1856, \$1,008,497; showing an increase of 16 per cent. Capital, Charles

City Court-house.

OHARLES DE BLOIS, or DE CHÂTILLON, duke of Brittany, died in 1864. He was the nephew of Philip VI. of France, who, anxious to secure his fortune, married him to Jeanne de Penthièvre, heiress apparent to the ducal crown of Brittany. But on the death of John III., in 1841, the claim of Jeanne was disputed by John of Montfort, brother of the deceased, who asserted that Brittany could not revert to female sovereigns. Thence arose a war of 20 years' duration, in which the kings of England and of France participated, the former giving assistance to Montfort, while the latter supported Charles de Blois. His cause at first promised to be successful; his competitor died about 1845; whereupon Jeanne of Montfort came boldly forward in behalf of her young son, and displayed such courage, inspired her followers with such enthusiasm, and obtained such assistance from

the chivalry of England, that fortune at last declared for her. Charles was killed in 1364, and the duchy of Brittany was awarded to young Montfort.

CHARLES EDWARD, Louis Philip Casimir, son of James Stuart and Clementina Sobieski, and grandson of James II., king of England, born in Rome, Dec. 31, 1720, died there Jan. 80, 1788. His mother's protracted labor of 6 days might have been thought to indicate that his career was destined to afford no exception to the misery that seems to have been the inheritance of the princes of the house of Stuart. But the Jacobite party saw in his birth an event that gave them new hopes. The incapacity of the pretender, or chevalier de St. George, as exhibited in 1715-'16, and the failure of Alberoni's plan for his restoration in 1719, had well nigh driven them to despair. The birth of Charles Edward, and the high character of the race to which his mother belonged, caused a reaction in their feelings, and prolonged the struggle between the constitutionalists and the divine right party for another generation, which was marked by desperate intrigue, and was concluded in wholesale slaughter. They were not disappointed. Charles early gave indications of talent, and of a firmness of purpose inherited from his mother, which misfortune caused to degenerate into sheer obstinacy. He was well educated by Protestant tutors, acquiring accurate knowledge of English, French, and Italian, and of the history of England. His physical education was attended to, and he was dexterous in all manly exercises. He had some taste for the fine arts, and skill in music. In his 14th year he made his first campaign, serving in the Spanish army that besieged Gueta, in the war between Spain and Austria. Though so young, he bore himself bravely. In 1787 he made the tour of Italy, and, to the annoyance of the British government, was everywhere well received. At Venice the honors due to a crowned head were accorded to him, for which the Venetian ambassador was dismissed from England. His character at this time was that of an amiable, accomplished youth, and his sweetness of disposition is frequently mentioned. From a very early period his mind dwelt upon the thought of recovering the British throne; but if Walpole had continued to rule in England, or if his peace policy had been pursued by his successors, it is obvious that Charles must have reached middle life without an opportunity to make his cast for a crown or a coffin. It was necessary that England and France should be at war to give the chevalier a chance to regain the throne his ancestors had so unworthily filled. England and France became involved in that war which grew out of the Austrian succession, and Charles was invited to France to take command of an army that was to be sent to England. He reached that country the middle of Jan. 1744, landing not far from the place where Napoleon landed in 1815. He went to Paris, but Louis XV.

would not see him. He made a faveralle impression on all persons with whom he o in contact, and particularly upon Mari Saxe, who was to have been the real head the invading army. That army was assemble on the channel coast, and consisted of 15,0 men. The transports were to be convoyed by 20 ships of the line and 5 frigates. The E lish were greatly slarmed, and the more so the war had not been declared, though it en in fact. Their channel fleet was small 1 of their ships being in the Mediterr where they had been sent to the assista the house of Austria. The prince an marshal embarked, their preparations has been completed, at the close of February. was the most favorable turn that the fe of the Stuarts ever took after the fi James II. There was much discontent in E land, they had a powerful party in Sect and the Irish Catholics looked upon the promised deliverers. Marshal Saxe was ablest of living soldiers, and one of the few s rals who have beaten English armies on pi fields. Charles was enthusiastic and r and had he landed success would probably he been his. But on March 6 a great storm gross raged for a week. Many vessels, filled troops, were lost, and the rest were forced i to France. Though Charles carnestly pro the French government to renew the he failed; whereupon he directed his atte to private efforts, and with difficulty wa vented from sailing to Scotland in a f boat. In 1745, having obtained some ance from individuals of British originals France, he fitted out 2 vessels—the Th of 67 guns, and the Doutelle of 16-and ing a quantity of arms and ammunitishoard of them, sailed for Scotland, a panied by a few friends. Of money, h less than \$20,000. The Elizabeth was been to action by a British cruiser, and compelled to fly. This was a serious le most of the stores were in her. The Dor escaped, and, after some adventures, Ch landed at Moidart, July 25, where he joined by a few persons, whose numbers soon increased; the most prominent of highland chiefs being Donald Cameron younger of Lochiel. The Stuart standard raised at Glenfinnan, Aug. 19. His army manifoldy increased, many clans rising in his half. He baffled Sir John Cope, the royal a eral, descended upon the lowlands, case Perth, and took possession of Edinbur Sept. 17. The lowlanders who joined 1 were not numerous, most of them, as o their number pithily expressed it, have solved to wait and see which side the man should take before making up their m Even of the few leading men who gave is the adhesion, many were probably in the condition of Lord Balmerino, who said that he was poor he would have joined the Mogul had set up his standard in Scotland. The victory

Hadsmuir, won Sept. 21, in which Cope's army ras annihilated by the highlanders in 5 mintes, raised the prestige of Charles's arms, and he ras enabled to march into England at the head 6,000 men, entering that country Nov. 8.

took Carlisle, and penetrated to Swarkwae Bridge, 6 m. beyond Derby, and 94 from ondon, without encountering any opposition, is superior military genius enabling him to affle the English army under Wade. f he met no opposition, neither was his force ncreased, save by a few individuals, most I whom were of the lowest rank. The Engish nobility at that time' contained many acobites, and they were still more numerous mong the gentry; yet they remained quiet, rhen the example of a few leading men among hem would have caused an extensive rising nd a change of dynasty. Most of them were ke Dr. Dryasdust's uncle, who, as his nephew 1, "so little esteemed personal safety, in conparison with high church principle, that e waited but the news of the adventurer's eaching London to hasten to join his standrd." Discouraged by this coldness, the chiefs ompelled Charles to return to Scotland, where new army had been formed, partly com-osed of troops from France, and partly of ative levies. Charles was bitterly opposed o this course, and the view he took showd his superiority. Had the army pressed orward, London would have fallen into its ands. On the retreat, the insurgents evinced

sir usual military preëminence, outmarching a ven their mounted enemies, and inflicting a loody repulse upon them at Clifton. ook Glasgow after their return, and defeated he English army, commanded by Hawley, an. 17, at Falkirk. The duke of Cumberland vas then sent to Scotland, and Charles was compelled to retreat again, much against his will. Toward the middle of April, 1746, the 2 rmies were near to one another, and Charles planned a night attack on Cumberland, which ailed because of want of due information repecting the country. On April 16 was fought he battle of Culloden, which was as fatal to the prince's character for generalship as to the for-unes of his house. With a fatigued, starved, ind diminished army, he awaited the attack of he superior forces of the royal army, the latter seing well supplied with every thing to render hem efficient. At first the action was one of irtillery only, in which the highlanders suffered erribly. At length their right wing charged, wept away a large portion of the 1st English ine, and was itself almost annihilated by the ire and bayonets of the 2d line. Even then the oyal army would have been defeated, had the Macdonalds imitated the daring bravery of the MacLeans, Frasers, MacIntoshes, Stuarts, and Camerons; but, angry because they had been blaced on the left, whereas they claimed the ight as theirs from the day of Bannockburn, hey refused to charge, and gave the enemy victory. Culloden was the last battle fought

for the fated line. Charles fled, and after 5 months of the most romantic wanderings he escaped to France, where he was well re-ceived, the king, for the first time, personally welcoming him. He was a great favorite at court. Some faint show was made of renewing the attempt to invade England, but Charles refused to promise to cede Ireland to France in the event of success, and the plan fell through. He visited Madrid in 1747, and was well received. In 1748 he was expelled from France under insulting circumstances, in compliance with the terms of the peace of Aix la Chapelle. This treatment he had brought upon himself, for the French government had sought in every way to avoid extremities, and nothing but the prince's obstinacy made violence necessary. He was also compelled to leave Avignon, and refused a home in Venice. He visited Germany, and afterward resided for some time in the duchy of Bouillon. He became a Protestant in or about 1752. He was engaged in some Jacobite conspiracies, and visited London in 1750 and in 1753. The story that he was present at the coronation of George III, is slenderly supported. He finally took up his residence in Florence. His father dying in 1766, he became the legitimate king of Great Britain. This title he never assumed, but was known as the count of Albany, which designation he had borne as early as 1784. He married in 1772 the princess Louiss of Stolberg-Gedern, who was more than 30 years his junior. The only effect of this marriage was to add domestic misery to the sufferings of the prince; his name is to be found in the long list of distinguished men who have been dishonored husbands. Alfieri was the princess's lover. She fled from her husband, and a judicial separation took place in 1788. The fact that the prince was intemperate in his last days has often been dwelt on, and it has been said that he fell into the habit of using spirits during his Scottish wanderings. Drunkenness, however, was the vice of the higher classes of that age, and was common with men who had never known hardship or misfortune; but Charles's position attracted attention to all that he did, and men contrasted his conduct with his pre-His last years tensions and earlier career. were spent at Rome, where he died on the anniyersary of the execution of his great-grandfather, though most accounts place the event on the following day. He left an illegitimate daughter, who survived him but a year. He was one of those rare characters who bear prosperity better than adversity. His talents were high, and no member of the Stuart family ever exhibited more practical ability. His conduct in the campaign of 1745-'46 evinced an original genius for war. He found himself in circumstances entirely new, and he adapted himself to them with all the facility of genius.—The history of Charles, and of his Scottish campaign, has been written by many eminent men—by Scott, R. Chambers, Pichot, J. H. Jesse, Earl Stanhope, C. L. Klose, and others. There is.

much curious matter respecting the conduct of the Jacobites, and of the prince and his family, in the "Memoirs of Sir R. Strange, and of Andrew Lumisden," by Mr. Dennistoun, Mr. Lumisden having been private secretary to both Charles and his father. In the early years of the 19th century the interest in the history of "the young pretender" was renewed by the writings of Scott, who has introduced him into 2 of his novels, "Waverley" and "Redgauntlet." Scott had known many Jacobites, and wrote of "the forty-five" and subsequent crises in their history from positive knowlege; and though he was a constitutionalist, his amiable nature caused him to sympathize with the members of a fallen party.

CHARLES RIVER, a winding stream rising in Worcester co., Mass., flowing through Norfolk and Middlesex. It meets the tide waters and forms part of Boston harbor. Navigable

to Watertown, 7 m. W. of Boston. CHARLES'S WAIN, a name given to the constellation Ursa Major, or the Great Bear, often called also the Dipper. The literal meaning of the name is the rustic's wagon, and some fancied resemblance doubtless was the occasion of its use.

CHARLESTON, a district of South Carolina, bordering on the Atlantic; area 1,906 sq. m.; pop. in 1850, 72,805, of whom 44,376 were slaves; in 1858, estimated at 100,000, of whom 60,000 are slaves. The Santee river bounds it on the N. N. E., and it is drained by Ashley and Cooper rivers, which unite to form the harbor of Charleston. The other chief river is the Edisto, beside which there are numerous inlets, including Charleston harbor, N. and S. Edisto, and S. Santee. These are generally navigable by small craft. The coast is broken by several bays and protected by a stretch of sandy islands. The surface is low, level, and in some places exposed to inundation. The soil embraces every variety, from the richest alluvial mould to the most sterile sand. There are large quantities of waste land, most of it reclaimable. The famous sea island cotton is grown along the rivers and coast. In former periods indigo, tobacco, silk, and wine were extensively produced. The olive, orange, and lemon have been found to mature in the open air, though cut down by occasional very severe winters. The palmetto and the pine are among the indigenous forest trees. The productions in 1850 were 318,737 bushels of Indian corn, 498,-972 of sweet potatoes, 15,700,603 lbs. of rice, and 4,221 bales of cotton. There were 22 corn and flour mills, 8 saw mills, 1 cotton factory, 2 tanneries, 12 printing offices issuing 14 periodicals, 92 churches, 3 colleges, 50 academies, and 1,196 pupils attending public schools. The South Carolina railroad, which terminates at Charleston city, runs through this district; a communication between the Santee and Cooper rivers has also been opened by a canal 22 m. long. This is by far the most populous district of the state. Several battles during the revolution.

including those of Eutaw and Fort Me were fought in this district. Capital Check ton.

CHARLESTON, the capital of the di or county of the same name, in the st South Carolina, and the chief commercial div of that state, stands at the confinence of the two rivers, Ashley and Cooper, which he unite and form a spacious and beautiful These rivers run a parallel course for many 6 m., widening as they approach the mathus gradually narrowing the site of the city into a complete peninsula. Here, spreading over an ample area, and blending win Atlantic, they make one of the most car of harbors, landlocked on all sides except of the east, from whence the sea pours is.
extent of the bay is ample for all the cosm purposes of a great city. The coup cal stitutes a beautiful picture, which might a pare with any in the world, but for the ha background, and of the relief afforded by a guous eminences. The lands around, and upon which the city is built, are all equally and level, rising only a few feet above the The dwellings seem to emerge from the w and at a little distance the shore line b indistinct. The width of the inner harbor, stim mouth, is something over a mile. The p is defended by 8 fortresses, well placed to the approaches of an enemy. On the right h at the entrance, is Fort Moultrie, on Sulliv island, occupying the site of that memor fortress, Sullivan, which, on June 28, 1774, but off the British fleet of Sir Peter Parker, in con of the most brilliant fights of the reve On the left hand, raised upon a mole in the harbor, and directly covering the cha Fortress Sumter, a recent erection, and the best built forts of the United Stat mediately in front of the city, and but a from it, is Castle Pinckney, covering the cru a mud shoal, and facing the entrance. The proaches are thus probably as well defi they can be by such structures, and w present greatly advanced system of a warfare. As against shipping, before the plication of steam, there could be little of the perfect efficiency of these 8 stre for the defence of the harbor. The o bor, lying within the bar, extends fre livan's island to the south channel, be lighthouse, a distance of 6 m. The ber most serious obstruction to the expression of Charleston. This consi prosperity of Charleston. This consists cessive ranges of sand banks, which s away before the entrance for several k and as these ranges consist in part of qu they are liable, from storms and u rents, to occasional change of locality. increasing the difficulty of pilotage. these successive ranges of sand are form eral channels of varying depths of water. til recently those in use were but 3: the channel, with 16 feet water at ebb; the see middle channel, with 14; and Lawford's or 1

uth channel, with but 10 feet. Recently, a urth channel has been discovered, called affitt's from the discoverer, an officer engaged the coast survey. This brings the vessels se in to the shores of Sullivan's island, is re free from shoals, is of bolder cut and more passage, and promises in a great degree en, if not entirely overcome, the impedis of the entrance, which have so seriously **sted the commerce of the port. Efforts are

w in progress to increase the depth and
lity of the Maffitt channel, by bringing art to help of nature. A dredge steamer of great wer, which works by suction, is employed aily in removing sand and mud from the bed channel, and with the most encouraging us. Already, the largest ships that frewent the harbor give it the preference over all thers. Buoys are set at proper distances, and knowledge of the bearings of the lights and sacons will make the entrance easy. The best these channels may, at high water, give a spth of 18 or 20 feet. The average rise of the de upon the coast is about 7 feet. The ship nannel is 111 m. from the city, the middle be approach to the coast is easy enough, the coaling gradual, and with proper care and cod seamanship, the soundings alone would sure the mariner of safety. The lights along ie coast of this district begin at the wellnown Cape Roman; there is a light at Bull's, ad floating lights and bell-boats contribute to sarm all the dangers of the coast. The lightouse at the entrance of Charleston harbor is * 1 Lighthouse island, and W. of the ship nannel, lat. 82° 41′ 55″ N., long. 79° 52′ 29″ 7. The tower is of brick (white), 110 feet igh; the light is at an elevation of 183 t above the sea. It may be seen at a dismce, in good weather, of 20 nautical miles. ntil recently the light was revolving; it is now ationary. This light, and the beacon in front of , are used as a range for crossing the bar of the iain or ship channel. The beacon in front of ne main light is also fixed. It is visible at a istance of 10 nautical miles. The color of the wer is red. The height of the light above 10 sea level is 50 feet. There are beacons also a Morris and Sullivan's islands, at Fort umter, Castle Pinckney, Mount Pleasant, and n the battery at White point, all within the harbor. The beacon on Morris island

s with the outer bar of the small channel; nose on Sullivan's have a channel range leading om the main ship channel into the harbor; no Castle Pinckney light is red; that on Mount leasant is in course of erection. The battery eacon, at the E. end of the city, is a shaft of conzed iron, and with Fort Sumter light forms range to enter the N. channel; it is lighted by is. From the entrance of the middle channel ou command a full view of the city, guided y the spire of St. Michael's church, which ears from this point about N. 68° W. This ire was the only prominent landmark con-

ducting to the city previous to and throughout the revolution. To prevent its use by the out the revolution. To prevent its use by the British in making their approaches, the city authorities had it painted black, but the enemy found black quite as demonstrative as white, and alleged that the change of color really helped their pilotage.—The city of Charleston is-situated in lat. 82° 48′ 88″ N. and long. 79° 55′ 88″ W.; 125 m. S. S. E. from Columbia, the capital of the state; 110 from Savannah, Ga.; 165 from Washington, N. O.; 547 from Washington, D. O.; 587 from Baltimore, 684 from Philadelphia, 778 from New York, and 989 from Boston; with all which places it connects by railroads, and there are steamship lines to Baltimore, Philadelphia, New York, Savannah, Florida, and the island of Ouba. Railroads emerging from the city pass into the heart of the state, penetrate the mountain region, and with their numerous branches extend for nearly 1,000 miles, forming connections with the neighboring states of North Carolina, Georgia, Tennessee, and Mississippi, with all of which it carries on an extensive trade. Hence it is that Charleston is one of the greatest marts in all the South for the great staples of that region, cotton, rice, tobacco, indigo, grain, bacon, wheat, tar, pitch, turpentine, and lumber; and recently, to a remarkable degree, for vegetables and fruit, with which through steamships she largely supplies New York and other northern cities. In the immediate precincts are grown the fine cotton of the sea islands. and the largest rice crops of the United States. A brief summary of the exports in rice and cotton alone, through a term of years, will better serve to show its rank as a place of commerce, and we give a statement thereof for 5 successive years, ending Aug. 81:

Years.	Upland Cotton, bales.	See Islands Cotton, bales.	Clean Rice, tierese.	Equivalent to
. 1854	406,658	94,766	195,594	Crop of 1858
1855	495,251	94,451	96,608	4 1854
1856	485,814	98,059	197,756	4 1855
1857	875,064	93,469	190,873	4 1856
1858	891,705	95,668	198,840	4 1857

The tonnage of the port in 1852 was 43,000 tons shipping. But the domestic shipping bears no proportion to the resources of the city. The banking facilities of Charleston consist of 6 incorporated banks, each of \$1,000,000 capital; one of \$872,475; one of \$8,160,800; and the bank of the state (a state institution), whose strict capital is \$1,090,977, but which discounts beside on sundry loans made by the state government, these latter varying from time to \$3,461,620. We thus make the aggregate banking capital of the city, as incorporated, on Oct. 1, 1858:

Six banks of \$1,000,000 each	.96,000,000
Railroad bank	879,475
Bank of Charleston	2.140.800
Bank of the state of S. Carolina	4,552,007
	A4 4 FOT 000

The present permanent population of Charles-

ton is about 65,000, of whom probably 1 are blacks and colored. It is on the increase, and the city is gradually spreading over the whole space between the 2 rivers, its entire length of 8 miles, and beyond this there is a growing suburb. For a long period, from 1830 to 1840, the growth of the city was imperceptible. Since that period, & has been added to the population. The incorporation within a few years of that portion of the population which dwelt without the corporate limits, called the Neck, has doubled the number of the wards, which are now 8, represented by 16 aldermen, and a mayor.—The city institutions are numerous, including, in addition to those which usually belong to municipalities, several charitable foundations, such as an orphan asylum, where 200 or 800 orphans of both sexes are nurtured and educated; poor-house, dispensaries, and hospitals. The city police consists of a day and night guard of about 100 men, 1 of whom are mounted. Among the endowments of the municipality are a high school and college, both of which possess a very high local reputation. The schools of local or private endowment are several, and well conducted, and the state legislature appropriates largely to the common school system, which has recently undergone great improvements, with an equal increase of efficiency and popular-ity. Of the several churches of the city, there are 10 Protestant Episcopal, 5 Presbyterian, 5 Methodist Episcopal, 8 Baptist, 1 French Protestant, 3 German Lutheran, 8 Roman Catholic, 2 Congregational, 2 Jewish syna-gogues, 1 Unitarian, 1 Methodist Protestant, 1 mariners', 1 New Jerusalem (Swedenborgian). Some of these churches are for black and colored worshippers. In all of them are galleries or other parts of the house assigned to slaves. The militia of Charleston constitutes the 2d division of the state military organization. It consists of 2 regiments of infantry (16th and 17th), a regiment of artillery (1st), a battalion of ri-fles, and a squadron of horse. The fire department is large and efficient, consisting of 12 volunteer companies, with their own engines, and 10 engines beside, belonging to the corporation, the officers of which are appointed by the city. The societies and clubs are very numerous. Charleston is the second congressional district of the state, and sends one member to the federal congress. She has 2 senators and 17 representa-tives in the legislature of the state. There are tives in the legislature of the state. There are several public libraries. The Charleston library (a society of private stockholders) contains probably 25,000 volumes, and is especially rich in works of natural history. The college library, the mercantile, apprentices, and other libraries, have each considerable and valuable collections. There is a medical college of high reputation, and 2 preparatory seminaries or schools of medicine. There is also an academy of art and a historical society, which has accumulated much valuable material.—The occupations of the people of Charleston are chiefly those of trade (including a large commission business) and the mechanic

arts. There are few manufactures, and to a limited scale. The South Carolina in by public fairs and premiums, has been auspiciously of late years, under the je age of state and city, with a hope to gi impulse to the arts, including in its of branch of mechanics, manufacture ture. It has a fine edifice in Ch there is an annual exhibition. The ship building carried on, and there are a docks for repairs. But the capital of the is mostly employed in agriculture, and the the city in trade. A large proportion of the ulation of Charleston consists of the the contiguous parishes, who, posses planting interests, are sufficiently maintain abodes in the city as well a plantations. Here they educate their e and hither they resort in midsums the secret of something anomalous in th Charleston, It is resorted to in a watering place by the people of the This practice will account for some characteristics which are thought to b to the city. The planters being with wealth and leisure, and these natuluxurious tastes and habits. These tone of the society, but tend to the dis-ment of labor and industry. Hence extra standards of living, and deficient ente well as industry.—The city covers a able extent of territory, more than in ber of people would seem to imply, as it cities, in consequence of the sul acter of so many of the residents. ing houses of these are generally issing large open grounds on every s are used for gardens. Rere exotic fruits, the peach, the nectarine, the c these spaces, and, with the vine, imp tropical character to the aspect of t which itself may be neither very lan Ample piazzas an magnificent. ranging from 1 to 3 stories, give cos shade to the dwelling.—The corpor of Charleston extend from Battery point, on the extreme southern v city, to an arbitrary line on the ne 8 miles above. The same limits, the usual mode of building in north would contain 800,000 or 400,000 p city is laid out with tolerable regi streets, with few exceptions, eros gles. The 2 principal, King and N. and S., nearly parallel, the wi the city, but converge to intersecti the northern limits. Meeting stre broad avenue of 60 feet, having or portion of the public buildings, and share of the wholesale trade. narrow for its uses, is the fishional street. The cross streets extend fro from Cooper to Ashley river, and are narrow for health, though the opinion ago preferred narrow to wide stree ing shade, and as giving more vol

e progress of the breeze. The houses are rick or wood; there are few of stone. in a few years a city ordinance required that we buildings should be made of wood; but regulation applies only to the old city, a limits on the north were Calhoun street, apper part of the present city, formerly the has been incorporated recently, and in equence of peculiar conditions in the locality, imited settlement, and the suburban charof the population, there was a modification this law, leaving them free to erect len structures for a period of 20 years, leston exhibits a peculiar taste in architecture.

It is like no other city in the union in this ct. No people could be more individual dependent of each other. There are few ar blocks or rows of buildings. There is alformity. Each man has built after his fashion, and there are some singular emanaof taste; but what is lost in propriety ined in variety, and, with fine gardens, plats of shrubbery, shade and fruit trees, range, peach, &c., creepers, vines, the rich

of the magnolia, the oak, the cedar, the of India, girdling the white dwellings the green verandahs, the effect is grateful highly picturesque. There are few public s in Charleston, and these are generally there is less necessity for them here in cities where the dwellings are crowded her; a large portion of the private resi-as may be said, each, to have its square. Hall square is insignificant; Citadel square noderately large parade; and in the upper of the city there are several small enclo-, equal to a block each, which are attractive zh not much frequented. The principal pubaildings are the citadel, the orphan house, ourt-house, Roper hospital, the old and new m-house, and the churches, especially St. p's, St. Michael's, the Catholic cathedral, Saptist (Citadel square), central, and others. outside of the city, on the N. boundary, , is the Magnolia cemetery, a beautiful and uesigned "city of the silent," in which

are some fine monuments.—Charleston originally settled about 1679, by an English ıy, with an English charter, under William , who became first governor. He first atted a settlement at Beaufort, but abandoned place in consequence of its insecurity. It too easily accessible by sea, too difficult of ice in a period when England had several time competitors. Sayle transplanted his ly next to the W. side of Ashley river. equently, after his death, another removal place, and the colonists passed over E. of river, and planted themselves on the W. of the Cooper; and Oyster Point became leston. Its history, from that period to lose of the revolution, nearly 100 years, is of curious and remarkable interest. Its conflicts with the tribes of red men by h it was surrounded; its devastations by a and fire; the terrible scourge which for

so long it endured from the flerce fevers of the low latitudes; the poverty of the early settlers; the niggardly help given by the lords proprietors; its civil commotions, in which finally it exchanged their government for that of the crown; and, subsequently, its conflict with the crown itself, at the period when the colonies generally threw off their allegiance; these are heads of chapters of exciting and instructive interest. Charleston was one of the first of the chief places of the South to assert a common cause with and for the colonies. It was the first to assert its own independence, and to make a constitution for itself. It was thrice attempted by the enemy: first in the fierce assault by Sir Peter Parker and Commodore Arbuthnot on the Palmetto fort at Sullivan's island, when the British fleet and army were beaten off, and almost destroyed; next by the attempted coup de main of Gen. Prevost; and thirdly, in the regular leaguer of the city by Sir Henry Clinton, when it stood a siege of 6 weeks by 12,000 British regulars, and succumbed at last to famine. But these details must be coust to famine. But these details must be sought in other volumes, and in the history of the state at large.

CHARLESTOWN, the 4th city of Massachusetts, in Middlesex co., is one of the oldest places in that state, dating from 1628, though Frothingham, the local historian, is of opinion that July 4, 1629, is the only date for the foundation of the town for which good authority can be adduced. The Indian name is Mishawan. It is a peninsula formed by the rivers Mystic and Charles, connecting with the mainland by a very narrow isthmus. Originally the town territory was large, but from it have been taken Woburn, Stoneham, Burlington, Somerville, Malden, much of Medford, and portions of Cambridge, West Cambridge, and Reading, leaving it the smallest town, in dimensions, in Massachusetts. It is connected with Boston by the Charles river and Warren bridges, so that the two places form but one community in most social and business respects. It forms a part of the Boston port of entry. It is a handsome city, and its appearance favorably impresses strangers. It is one of the most interesting spots in American his-A flourishing and noted place in the colonial period, it became conspicuous at the very commencement of the revolution, as well from Tbe political as from military circumstances. British force that fled from Concord and Lexington fell back upon Charlestown, and Gen. Gage threatened to destroy the place if the troops were molested. Most of the inhabitants left their homes, so that on June 17, 1775, when the town was destroyed, not above a tenth part of their number were present. The resolution to fortify Bunker hill, in Charlestown, taken by the Massachusetts committee of safety, led to the battle of that name, which, after making due allowance for patriotic exaggeration, was one of the most important actions ever fought, because of the moral effect it pro-

duced on the nominal victors. It was in course of this battle, and as one of its incidents, that Charlestown was destroyed. This act is often spoken of as if it were one of pure wantonness, but the English officers defended their conduct on grounds of military necessity. Gen. Howe, who commanded the force actively employed, declared that he was annoyed by musketry from Charlestown, and sent word to Clinton to fire the place, which was done by a discharge of shells from Copp's hill in Boston, and by men who were landed for the purpose. The de-struction was complete within the peninsula, with the exception of a few houses. Gen. Gage had resolved to burn the town should the Americans erect any works on the hills within its The number of buildings destroyed was limits. about 400, and the value of the property was estimated at more than \$500,000. Burgoyne's rhetorical description of the event has added much to its notoriety. In 1825 the corner stone of Bunker hill monument was laid, which was completed 18 years later. (See BUNKER HILL.) Charlestown appears to have recovered very slowly from the effect of the blow it received in 1775. In 1765, its population by census was 2,031, but in 1790 it was only 1,583, and in 1800 it was 2,751, which did not vary much, we may suppose, from what it had been at the beginning of the war. By the census of 1810 the inhabitants numbered 4,959; by that of 1820, 6,591; that of 1830, 8,783; that of 1840, 11,484. The state census of 1855 showed a population of 21,700, of whom 5,168 were foreigners. The number of voters in 1857 was 8,411. Charles river bridge, connecting the town with Boston, was completed in 1786, and Warren bridge in 1828.—Charlestown is a place of considerable business, of a various character. The principal manufactures are chairs and cabinet ware, lead, soap and candles, leather, lumber, upholstery, steam engines and boilers, railroad cars and other vehicles, boots and shoes, tin ware, whips, stone and earthenware, casks, pickles and preserves, bread, clothing, morocco, gas, chemical preparations, quarried stone, brushes, spirits and beer, blacksmiths' work, willow ware, cigars, snuff, brass ware, mechanics' tools, combs, lime, trunks, masts and spars, boats, saddles, harness, blocks and pumps, silver ware, &c. The commerce of Charlestown is included in the Boston returns. The place has been connected with the ice trade from an early day, and great numbers of vessels are annually laden with ice at its wharves. According to the official returns of 1855, there was then \$600,000 invested in the business, and the number of tons of ice taken was 186,000. The state valuation in 1850 showed the property of Charlestown to be worth \$8,624,690. It is now \$14,048,800. The number of dwelling houses in 1850 was 2,186, and in 1855 it was 8,126. The Boston and Fitchburg railroad company formerly had both their passenger and business stations for Boston at Charlestown, but the passenger station was removed to Boston in 1848, and

rangements for manufactures and repair Massachusetts state prison, which was fo in 1800, is in Charlestown, on a point of I near East Cambridge. The number of pri ers there on Sept 15, 1858, was 465. institution has been very successfully ed, and is now under the charge of Mr. Gi Haynes, who was appointed warden in 1991. The McLean asylum for the instanc, which was formerly in Charlestown; is now in Ser which was incorporated in 1842, and is a posed of territory which made part of Ch town until that date. One of the best yards belonging to the United States in Charlestown, where it was established in I It is on the N. side of Charles river, closed by a high wall of great stree covers about 60 acres. The yard cor eral dwelling houses, numerous store ! rope walks, machine shops, ship I The dry dock is a fine work, and o \$700,000. Its length is \$41 feet, with depth 80. Some of the best ships bel the national marine were built at the among them being the Independence, rimack, the Jamestown, the Cumber others. Extensive repairs of ves made, and in the summer of 1858 1,550 men employed in the yard. hospital connected with the yard is at C Charlestown has 2 banks, with capital 000,1 insurance company, and 3 wei There are 12 churches, belonging Methodists, Unitarians, Universe Catholics, and Orthodox Congre There are 89 public schools in Cha tended by 4,485 scholars, and having and 61 female teachers. The sity raises annually for schools. There is an income academy, with 140 pupils; and the other academies and private schools an average attendance of 123. The fir ment consists of 6 engine companic company, and 1 hook and ladder comp government is in the hands of a board dermen and 18 councilmen, and a mayor. lestown forms a part of the first a trict of Middlesex co., which elects 1 tor, and is divided into 2 representative d the 1st (ward 1) electing I member, a (wards 2 and 3), 2 members of the st of representatives. The history of Ch down to the date of the battle of Be has been well written by Mr. R. Fretl jr., one of the editors of the "Boston CHARLESTOWN, the capital of J

their lands at Charlestown are now devoted a

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CHARLESTOWN, the capital of Jeffersa. co., Va., a thriving post village on the Winchester and Potomac railroad; pop. about 1,500. It is situated in the region called the valley of Virginia, and is surrounded by a beautiful and fertile country. The land on which the town is built formerly belonged to Col. Charles Washington, the brother of Gen. Washington, and the place was for some time his residence.

OHARLETON, ROBERT M., an American lawyer and author, born at Savannah, Ga., Jan. 19, 1807, died in the same city, Jan 8, 1854. Early admitted to the bar, he became successively member of the state legislature, United States district attorney, in 1834 judge of the supreme court of the eastern district of Georgia, and in 1852 United States senator. The best known of his writings for periodicals are the "Leaves from the Portfolio of a Georgia Lawyer," which appeared in the "Knickerbooker Magazine." In 1839 he published a volume of poems, including the poetical remains of a deceased brother, the second edition of which, containing also 2 prose addresses, appeared in 1842. He was esteemed for his finished oratory and genial social powers.

CHARLEVILLE (anc. Area Remenses, Carolopolis), a French town, noted for its beauty, in the department of Ardennes (Champagne), situated on the Meuse, about a mile N. of Mézières, and connected with that town by an avenue and suspension bridge; pop. 9,162. It was a military station until the end of the 17th century, when its fortifications were destroyed, and subsequently the royal manufactory of arms was removed. The prosperity of the town has since increased. It has an active export trade in wine, spirits, coal, iron, and slates; a manufactory of muskets, nail works, copper founderies, and tanneries; a commodious port, a public library of 22,000 volumes, a college, an ecclesiastical school, and a theatre.

lege, an ecclesiastical school, and a theatre.
OHARLEVOIX, a N. W. county of the S.
peninsula of Michigan, bordering on Lake Michigan, and having an estimated area of 620 sq. m.
Its W. shore is deeply indented by Little Traverse bay, and 2 or 3 considerable lakes lie wholly or partly within its boundaries. It has been formed since the last census (that of 1850) was

CHARLEVOIX, PIERRE FRANÇOM XAVIER DE, a French historian and traveller, born Oct. 29, 1682, at St. Quentin, died Feb. 1, 1761, at Laffeche. After being professor of Latin literature and philosophy in the colleges of the order of Jesuits, of which he was a member, he was sent a missionary to Canada. He ascended the St. Lawrence, travelled through the country of the Illinois, and descended the Mississippi to its mouth. In 1722 he visited St. Domingo and after his return to France was during 20 years a contributor to the Journal do Trévous. His principal works are: Histoire et Description du Japon; Histoire de l'île Espagnole ou de Saint Dominique; Histoire du Paraguay; and Histoire de la Nouvelle France. The last named work is often referred to by American historians.

CHARLOTTE, a S. W. county of New Brunswick, separated from Maine on the W. and S. W. by the St. Croix river, bounded S. by the bay of Fundy and Passamaquoddy bay; area 1,250 sq. m.; pop. in 1851, 19,988. It is drained by several rivers, emptying into the bay of Fundy, and includes Grand Manan, Campo

Bello, and Deer islands. It has a fertile soil, but the inhabitants attend more to commerce, ship building, and the fisheries than to agriculture. The productions in 1851 were 8,268 bushels of wheat, 409 of Indian corn, 69,998 of oats, and 163,117 of potatoes. There were 102 saw mills, 14 grist mills, 4 tanneries, 6 woollen factories, 1 iron foundery, 53 churches, and 2,912 pupils attending schools. Ospital, St. Andrew's.

CHARLOTTE, aS. E. co. of Va.; area 550 sq. m.; pop. in 1850, 18,955, of whom 8,988 were slaves. The surface is hilly; the productions in 1850 were 8,868,040 lhs. of tobacco, 372,867 bushels of corn, 85,683 of wheat, and 171,873 of cats. There were 486 pupils in the public schools, and 25 churches. The county was formed from part of Lunenburg in 1794. Capital, Marysville.

OHARLOTTE, a thriving town on Sugar creek, and capital of Mecklenburg co., N. C. It is the terminus of the Charlotte and South Carolina railroad, and of the Central railroad of North Carolins. A plank road 120 m. long connects it with Fayetteville. The town is situated upon the gold range of the Atlantic states, and its prosperity is principally owing to the working of the mines in its vicinity. (See Gold.) A branch mint was established here in the year 1888 for coining gold. Pop. in 1858, about 2,500.

OHARLOTTE AMALIE, or Sr. Thomas, the capital of the island of St. Thomas, Danish West Indies. It has an excellent harbor, and is built on 8 hills, which are spurs of a mountain rising immediately in the rear of the town. The citadel of Christian's Fort and 2 batteries are its chief defences. This town possesses considerable trade, and contains a number of churches and chapels belonging to various denominations, and a Jewish synagogue. Pop. estimated at about 12,000.

CHARLOTTE AUGUSTA, commonly called Princess Charlotte, daughter of Queen Caroline and George IV., born at Cariton house, Jan. 7, 1796, died at Claremont, Nov. 6, 1817. At an early age she was placed under the care of the bishop of Exeter and Lady Clifford, and became one of the most accomplished princesses of her day. The prince of Orange was proposed to her as husband, but she bestowed her affections upon Prince Leopold of Saxe-Coburg (who in 1831 became king of Belgium). She married him May 2, 1816, and they took up their residence at Claremont, where she died after having been delivered of a still-born child. Her death caused universal grief in England, and the physician who had attended her committed suicide in despair.

CHARLOTTE HARBOR, or Boca Grands, an inlet on the W. coast of Florida, about 25 m. long, from 8 to 10 m. wide, but only 10 or 12 feet deep. Its entrance, which lies between Boca Grande key and Gasperilla bay, is \$ of a mile wide and 6 fathoms deep. This harbor is sheltered from the sea by several islands, and

produces the finest oysters and the greatest variety of fish, wild fowl, and deer, of any part of the coast.

CHARLOTTE TOWN, the capital of Prince Edward island, is situated in Queen's co., at the junction of Hillsborough river with the York river; pop. nearly 5,000. It has a good harbor, is well built, contains the so-called colonial buildings, with accommodations for the legislature and courts of law, the old court house, an Episcopal church, Scotch church, a Baptist chapel, a Methodist chapel, a Roman Catholic church, an asylum for lunatics and poor, an academy, and a national school.

and poor, an academy, and a national school.

CHARLOTTENBURG, a handsome town in the Prussian province of Brandenburg, government of Potsdam, and circle of Teltow, on the left bank of the river Spree, connected with Berlin by a fine promenade, which is lighted at night, the distance being only about 4 miles; pop. about 9,000. The place takes its name from Sophia Charlotte, the queen of Frederic William I., who in 1706 caused a palace to be built there. Frederic the Great added a new château, and endowed it with a valuable gallery of art, which, however, especially the part which contained the paintings, was injured by the Austrians in 1760.

CHARLOTTESVILLE, a town of Virginia, capital of Albemarle co., on Moore's creek, 2 m. above its entrance into Rivanna river, and 81 m. N. W. of Richmond; pop. in 1853, 2,600. Its chief importance is due to its being the seaf of the university of Virginia, an institution planned by Mr. Jefferson, founded in 1819, and whose buildings were crected at an expense of over \$200,000. (See VIRGINIA, UNIVERSITY OF.)

CHARM (Lat. carmen, a verse, a song, or a charm), a word used in necromancy to designate a power or spell exercised in an occult manner, by which the will and action of the charmed person are enchained. In ancient times charming was supposed to be effected by the assistance of the devil. The Scriptures (Deut. xviii. 11) place it in the same category with sorcery, witchcraft, and necromancy, and treating them all as acknowledged facts, forbid them to be practised. The charm was supposed to be accomplished by placing words or sometimes things in a certain arrangement (hence the name). The charming of serpents is also mentioned in Scripture. Something of the kind is still practised among the jugglers of India.

CHARNEL, or CHARNEL HOUSE, originally a place for depositing flesh, a larder, but now generally used to denote a receptacle for the dead, usually near or in a church.

CHARON, in Greek mythology, son of Erebus and Nox, the ferryman who transported the souls of the dead over the river Acheron to the infernal regions. The fee exacted for this service from each spirit ferried over by him was never less than 1 obolus, nor more than 8. The spirits of those who had not been honored with a funeral were not permitted to enter Charon's boat without having previously wandered

on the shore for a century; nor could my kning person be admitted into it till he had shown its master a golden branch, the gift of the Commean sybil. The ferryman was once instanced for a whole year for having conveyed Hercules across in violation of this relations, who though he had been compelled by the here to do so. Charon is generally represented as a robust old man of stern countenance, his ever glowing like flame, his hair white and busy, and in his hands a pole to direct his best on her course.

CHAROST, ARMAND JOSEPH DE BÉREUX, duke, a French philanthropist, a descendant of Sully, born at Versailles, July 1, 1738, died in Paris, Oct. 27, 1800. At a time when achieve generally addicted to licentious pleasure, he devoted himself to the improvement of agriculture and of the condition of the laberag classes. The peasants on his estates were indebted to him for their emancipation, while he was active in promoting their welfare and devas active in promoting their welfare and devas active in promoting their welfare and elevation. His influence extended over several provinces of France, and the profligate law XV. himself acknowledged his services. What France was exposed to invasion, the data athough he had little sympathy for the new government, contributed a large sum of many for the common defence. Nevertheless he was arrested and his property confiscated, has he escaped the guillotine.

CHARRAS, JEAN BAPTISTE ADOLE French republican soldier and states at Pfalzburg, in the department of the M (Lorraine), June 7, 1810, the son of Gen. C ras, took part in the revolution of 1830 promoted in 1838 to the rank of Heat wrote a series of able articles in the Ja on military affairs, which gave umbrege to government and caused him to be se ria; distinguished himself there on the b field as well as in the training of native to and the colonization of the country; b ing to his unpopularity with Louis Ph government, he was, after much prod tion, promoted only to the rank of h colonel. After the revolution of 1848, 1 came under secretary of state (April 11), a representative for the department of Pay Dome (April 22). He was one of the m z alous members of the national a of the chief pillars of the republican ment, and one of the victims of the coup & of Dec. 2, 1851. First detained at Ha transported to Belgium in Jan. 1862, pelled from that country, in Nov. 1854, at request of Louis Napoleon, whom Cherras denounced on many occasions, but mo ively in a letter of which 50,000 cos printed in Belgium alone. À per trois maréchaux de France (Brussels, 18 also attributed to him. A remarkable from his pen, Histoire de la campagne de 181 appeared in Nov. 1857, and a second estit soon afterward. Since Dec. 1, 1887, he le been again permitted to reside in Brussel.

CHARRON, PIERRE, a French author, born in Paris in 1541, died there, Nov. 16, 1603. His father, a bookseller, had 25 children in all. Pierre studied law at Orleans and Bourges, and had practised already for some years as an attorney when he took holy orders, and soon became noted for his eloquence as a preacher. He filled several ecclesiastical offices in Gascony and Languedoc; was appointed chaplain of Queen Margaret of Navarre; in 1588 returned to Paris, intending to become amonk, but was rejected on account of his age. Remaining a secular priest, he went to Bordeaux, and there became intimately acquainted with Montaigne. Charron is the author of 2 books widely different in their tendency and character. His Traité des trois vérités, published for the first time in 1594, is a defence of religion against atheists, of Christianity against other religions, and of Oatholics against heretics. In 1601, under the tolerant rule of Henry IV., Charron published his Traité de la sagesse (latest edition by Duval, Paris, 1821). To this work, branded by his contemporaries as rank atheism, Charron owes his place in the history of modern philosophy.

CHART (Lat. charta, paper), a topographical or hydrographical map. Its special design is not to indicate political divisions, nor geological, botanical, or zoological characteristics, but to represent a portion of the earth's superfices in plano. The topographical chart is a detailed draught of the superficial shape of a particular district. The hydrographical chart is chiefly for the use of navigators, and describes shores, banks, harbors, sounds, rocks, flats, and other nautical circumstances, with the latitude and longitude of every place. In the plane chart the meridians of longitude and the parallels of latitude are represented as always parallel and equally distant from each other, and therefore the degrees of each are everywhere equal. Mercator's chart differs from this only by representing the distance between the parallels of latitude as increasing in a certain proportion from the equator toward either pole. In the globular chart the proportion of magnitudes and distances is nearly the same as on the globe itself. The distance of the eye from the plane of the meridian on which the projection is made, is regarded as the sine of an angle of 45°, which makes the meridians always equidistant and the parallels nearly so. A selenographic chart represents the phases and spots of the moon.

OHARTER (Gr. xaprys, parchment; Lat. charta), the name given in the middle ages to every kind of written convention. Among the principal kinds were charts jurats or sacramentales, by which an engagement was contracted with an oath; charts de mundeburds, by which kings, lords, or bishops granted their protection to corporations, churches, or monasteries; charts apennes, or pantocharts, by which titles to property were confirmed; charts beneficiaris, by which kings and emperors bestowed donations; and charts partite or indentats, which were common in

England and France, and were marked with indentations or cut asunder, as bank notes are now, in order to guard against counterfeits. The term came gradually to be limited to its modern sense, meaning an instrument by which a king or other sovereign power conferred rights and privileges. Thus many of the early colonies in America had charters from the king of England, by which they were permitted to establish a government, and make laws for their own regulation, which was therefore called a charter government. Among the charters of greatest historical importance are the magns charta, the basis of English liberty, which was signed by King John in 1215, and was frequently violated and confirmed by subsequent kings; the charter of peace, which Philip Augustus of France signed in 1222 at Melun, and which settled the relations between the royal officers and the officers of the bishop and chapter of Paris; the Norman charter, granted by Louis X. in 1815, to confirm the rights and privileges which Normandy had enjoyed under its ancient dukes, and which was not abolished till 1789; the constitutional charter, which was the fundamental law of the French realm under the restoration, promulgated by Louis XVIII. in 1814, and which made all authority and execu-1814, and which made all authority and executive power reside in the person of the king, and gave legislative power to 2 chambers; and the French charter of 1830, by which the national sovereignty was proclaimed, which was voted by the chamber of deputies, Aug. 7, 1830, and accepted by King Louis Philippe on the following day. It is by royal charter in England that horometa have the right of sending land that boroughs have the right of sending members to parliament, and that municipal bodies, universities, colleges, and companies are incorporated and endowed with powers and privileges; and in the United States, the act of the legislature creating a corporation is called its charter.

CHARTER PARTY, a contract relating to the hire or chartering of a ship. The owners find the vessel with all proper sails, tackle, and necessary outfit of every description; they also usually provide a captain and crew, whom they victual and pay, and also insure their own vessel. The person who hires the vessel is the charterer. The hire may be paid either by the month or by the voyage; and the contract may either terminate on arrival at a port of destination, or may provide for taking in a fresh cargo there, and proceeding to another port. The provisions vary in every charter party according to the requirements of the parties to the contract.

OHARTERHOUSE (Fr. Chartrenss, a Carthusian convent), a celebrated modern school and charitable foundation for aged soldiers and merchants in the city of London. The site it occupies was bought for a public burial place, during the great plague of 1349, by Sir Walter de Manny, who afterward established on it a convent of Carthusians. After the dissolution of the religious houses by Henry VIII. It pass-

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the battle of the people. Among these Cobbett made a conspicuous figure. His "Political Register," first, commenced on high tory principles, was afterward turned to the popular side; and his powerful common-sense articles aided the cause effectively, while his conduct under numerous convictions for libel set an example of submission to the laws. The rapidly succeeding deaths of Lord Castlereagh, Lord Liverpool, and Mr. Canning, the quarrels of the king and queen, some improvements in the state of trade, and the abundant harvest of 1822, distracted attention from political questions. The fire, however, was smouldering, not extinct. In 1827, "a national union of the working classes," the idea of which was borrowed doubtless from Robert Owen's plans, was founded at Birmingham, of which Lovett and Collins were the promoters, and which included among its members a large proportion of the middle classes as well as working men. These political unions, and the concentrated strength which they displayed, forced the attention of parliament; and to them must be attributed that measure of parliamentary reform which passed in 1882. The measure had already been brought forward in 1830, and in 1831 had passed the commons, but had been rejected by the lords; but the determined attitude taken by the people compelled the retirement of many of its active opponents, and the reform act was passed in a very mutilated state, embracing, however, a portion of the principles claimed, viz.: the disfranchisement of nominal constituencies, and the substitution of others which had, by population and wealth, the right to be represented in the great council of the state. From this period chartism as a separate development in the history of the nation dates. Whatever was gained by the reform act fell to the middle classes; the working men gained nothing. The suffrage was based on rateable property, and the great requisite of the ballot box was left unnoticed. George Grote, the distinguished historian of Greece, repeatedly brought forward his measure for the ballot, which was laughed out of the reformed house, and he retired from political life. new poor law of 1835 further exasperated the working men against the whigs or reformers, whose partiality for the political economists of the Manchester school the chartists considered decidedly hostile to the interests of the working The poor rates had always been a classes. grievous burden; but the object of the new poor law was to make the relief as distasteful as possible to the recipient, and to place the distribution of the funds locally collected under the superintendence of central authority. With this object the parishes were joined into unions, while the internal regulations of the workhouses were of the most arbitrary character. They were generally considered, as indeed they were, little better than prisons, and the food was often inferior to that of the prisons. To render parochial relief more irksome, out-door relief was discouraged,

and applicants were driven a into the house." Trades unions were now formed throughout the country, with the object of fixing the rate of wages at something above a starvation standard; and with this purely social question the political question of chartism was incorporated. A convention of the chartist leaders s in London, which was attended by delegates from all the bodies in the country and manufacturing districts. Chartism, as a political organization, had but little sympathy or encouragement in the agricultural districts; but the distress which was felt by the laborers created discontent, which found its expression in incendiarism, and "Swing," the watch-word of the laborer, became the terror of landlords and farmers. The engrafting of social reforms upon the purely political objects of the early associations was premature, and the avowal of extreme views by a section of the chartists who styled themselves "physical force men," alienated the middle classes from their cause, and even caused dissension and disruption in their own ranks. The radical members of the house of commons who were willing to befriend their cause found themselves embarrace by the intimidating doctrines of the physical force men, and not less so by the direct inter-ference with trade and with the laws of demand and supply contemplated by the trades unions. These were elements of discord, and arrayed the manufacturers and capitalists against their cause; and the liberals, who, in the cause of reform, had favored political unions, now discouraged them. Nevertheles upon the presentation of a petition in 1889, its prayer was supported by 46 members, including some of the most eminent leaders of the newlystyled radical party. The physical force men endeavored to precipitate the march of events. Finding the petition disregarded, and the work-ing men of the metropolis indifferent to the cause, they adjourned the convention to the northern districts, and endeavored to organise a combined revolutionary movement. Some insignificant demonstrations were made in the north, which were put down by the local police, and which were so mixed up with turnouts for wages, and with hatred of mills and mill-owners, that the real end of chartism was lost sight of. In Newport alone, in South Wales, Frost, Williams, and Jones succeeded in getting up an insurrectionary movement among the miners, which was instantaneously quelled by a small party of military quartered on the spot; a small party or ministry quartered on the spots; and the leaders, being brought to trial, were transported. In 1840 a new association was organized at Manchester, of which Feargus O'Connor, a member of parliament, was the ostensible head; but the prime movers were Lovett and Collins, the chiefs of the old unions, who had managed to escape the hand of the law. The chartists supported the anti-corn-law league, but the bond of union between themselves and the middle classes was broken. In 1841 a monster petition, with upward of a

million of signatures, was presented to the house of commons by Feargus O'Connor, pray-ing for the release of the chartist convicts, and for the passage of a law embodying the six points. Mr. O'Connor propounded a land scheme to enable the chartists to become small freeholders, and thus to increase their votes: but the affair, from mismanagement, turned out a bubble, to the great loss and disappointment of the contributors. Chartism fell for some time into neglect, and disappeared from public view until 1848, when the movements consequent on the French revolution aroused it, and an attempt was made to bring about a grand organized demonstration in London. Bodies of men were to march from the manufacturing districts, and from all parts of London, to hold a great meet-There they were to be addressed by Mr. O'Connor and other important members of their party, and they were afterward to make a display of their numerical strength by parading in front of the houses of parliament. intention was peaceable; but the doctrines of the ultra socialists in France, with whose name chartism had been coupled, alarmed the middle classes of London, and this temper completely neutralized the chartist programme. The demonstration took place in April; the government made no display of military force, although they took every precaution against any rising; no less than 150,000 residents in the metropolis came forward, and were made special constables. A large body of London chartists assembled at the place of meeting, but the county contingents did not come in; and Mr. O'Connor, fearing lest the spirit which he had evoked might be too potent, withdrew from the The demonstration began with a silent meeting, and ended with a peaceable parade through the public streets. The public tranquillity has not been disturbed since by ap-The public prehensions of chartism, and in 1856 Mr. John Frost was pardoned and permitted to return from transportation. Lord Brougham, on the occasion of presenting a petition, in July, 1857, declared himself in favor of an extended suffrage, but still on the basis settled by the reform of 1832, and by no means as a recognition of democratic principles. During the very same week a great meeting of non-electors was held at Rochdale, in the manufacturing districts, when the leading points of chartism were dis-cussed and reaffirmed. One of those points, the abolition of the property qualification of members of parliament, was made the law of the realm in the summer of 1858.

CHARTRES, an arrondissement and city of

France, in the department of Euro-et-Loir: pen of the former in 1856, 111,957, and of the late. 18,925. The arrondissement comprises 8 cantres and possesses 275,000 acres of grain land, 3.5 % of vineyards, 8,000 of various crops, 55.00 d meadow, 95,000 of fallow land, and 28,000 d wood and forest. The annual value of the raw material employed in manufactures is \$3,500,000, and of manufactured goods \$4.2% The number of hands employed is 1.30 000. The daily wages are for men 43 cents, solf for women 171 cta.—The city of Chartres is the chief town of the department, sinuse! 54 m. from Paris, on the railroad from the city to Rennes, on a slope at the bears of which runs the river Eure, which divis the town into 2 parts, connected by a bridge planned by Vauban. Upon the site of the former fortifications are fine boulevards, and some of the modern buildings are well beilt. but the general appearance of the city is not prepossessing, most of the streets being var-row and crooked. The great object of interest there is the cathedral of Notre Dame, menced in the beginning of the 11th and decicated in the latter part of the 18th century, one of the spires not having been finished till the 16th century. The principal front presents 2 square towers surmounted by 2 lofty ectagos pyramids. The old spire, of plain architecture, but cased with stone carved like the scales of a fish, is 874 feet high. The new spire is 418 feet high, built in the florid style. The rich port the painted glass windows, the beautiff adorned with valuable works of art, and et remarkable features, combine to make the It was covered with an iron roof in 1841, th old framework having been destroyed by a in 1836. There are several other churches Chartres, and among the public build institutions must be mentioned the reof the prefect, 8 hospitals, a fine botanied den, a museum, and a library of 30,000 umes; a communal college and a school, a theatre, an agricultural acciety, charitable institution recently established by Dr. Aligre, whose name it bears, with a dations for 200 aged poor, and for 100 children. The town carries on an active in the products of the country, has an i tant wool market, and manufactories of we goods, hosiery, leather, and machinery. it derives its chief commercial importance its corn market, which is the best reg France, and the management of whos is intrusted to a corporation of wom

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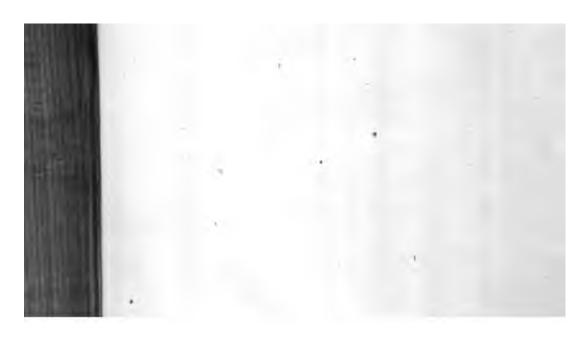
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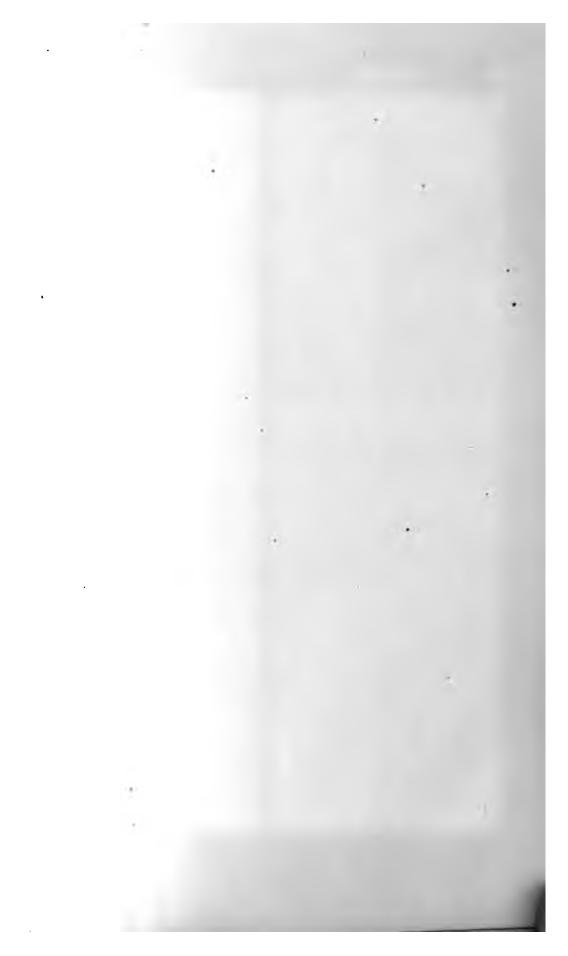
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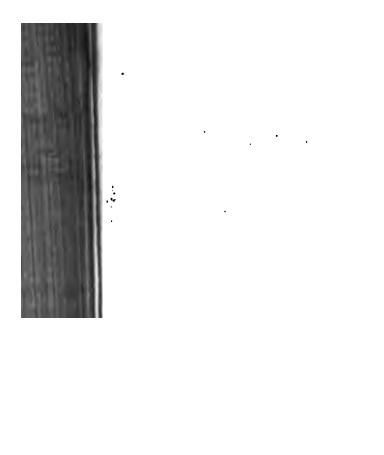
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